Alliance Regional Water Authority Board of Directors

REGULAR MEETING



BOARD MEMBER PACKETS

Wednesday, February 23, 2022 at 3:00 P.M.

Call-In Number: 1-346-248-7799 Meeting ID: 978 1228 2647 Passcode: 506563

BOARD MEMBER PACKETS

Wednesday, February 23, 2022 at 3:00 P.M. County Line SUD Offices, 8870 Camino Real, Kyle, TX 78640

This Notice is posted pursuant to the Texas Open Meetings Act (Texas Government Code Chapter 551). The Alliance Regional Water Authority (the Authority) Board of Directors will hold a meeting at 3:00 PM, Wednesday, January 26, 2022, at the County Line Special Utility District Offices, 8870 Camino Real, Kyle, Texas. The presiding officer of the meeting will be physically present at the location noted above. Some directors may participate remotely through videoconference. The public may observe this meeting in person or by using the following videoconference link and/or calling the number and code provided:

ZOOM MEETING LINK

Call-In Number: 1-346-248-7799 Meeting ID: 978 1228 2647 Passcode: 506563

Members of the public wishing to make public comment during the meeting must (1) be present at the public meeting location or (2) join by videoconference and register by emailing info@alliancewater.org prior to 3:00 p.m. on February 23, 2022. Public comment is not allowed by call-in. This meeting will be recorded and the audio recording will be available on the Authority's website after the meeting. A copy of the agenda packet will be available on the Authority's website at the time of the meeting. Additional information can be obtained by calling Graham Moore at (512) 294-3214.

- A. CALL TO ORDER
- B. ROLL CALL
- C. PUBLIC COMMENT PERIOD (Note: Each person wishing to speak must register with the Executive Director at info@alliancewater.org before 3:00 p.m.)
- D. CONSENT AGENDA

The items included in the Consent Agenda portion of this meeting agenda can be considered and approved by the Board of Directors by one motion and vote. A Board member may request that an item included in the Consent Agenda be considered separately, in which event the Board of Directors will take action on the remaining Consent Agenda items and then consider the item removed from the Consent Agenda.

- D.1 Consider approval of minutes of the Regular Meeting held January 26, 2022. ~ *Graham Moore, P.E., Executive Director*
- D.2 Consider approval of the financial report for December 2021. ~ *Graham Moore, P.E., Executive Director*

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- E. PUBLIC HEARINGS / PRESENTATIONS None
- F. ITEMS FOR DISCUSSION NOT REQUIRING ACTION
 - F.1 Report on Technical Committee activities. ~ *Graham Moore, P.E., Executive Director*
 - F.2 Update on status of groundwater management in project target area, and Gonzales County Underground Water Conservation District, Plum Creek Conservation District, Groundwater Management Area 13, Region L Planning Group, Guadalupe-Blanco River Authority, Hays County and CAPCOG activities. ~ Graham Moore, P.E., Executive Director
- G. EXECUTIVE DIRECTOR AND LEGAL COUNSEL REPORTS Update on future meeting dates, locations, status of Authority procurements, Executive Director activities, other operational activities and the status of legal issues, where no action is required. ~ Graham Moore, P.E., Executive Director / Mike Gershon, Lloyd Gosselink Rochelle & Townsend, P.C.

H. ITEMS FOR ACTION OR DISCUSSION/DIRECTION

- H.1 Update and discussion regarding the Authority's public relations activities possible direction to staff and consultants. ~ CD&P
- H.2 Update and possible direction to Staff regarding construction of the Authority's Phase 1B program. ~ Chris Noe, P.E., Pape-Dawson Engineers
- H.3 Update and discussion regarding the status of the Authority's Phase 1B program, and direction to staff and consultants. ~ *Ryan Sowa, P.E., Kimley-Horn & Associates*
- H.4 Consider adoption of Resolution 2022-02-23-001 approving Work Order #10 and #11 with Blanton and Associates, Inc. for additional environmental work on the Phase 1B Program, as recommended by the Technical Committee. ~ Graham Moore, P.E., Executive Director
- H.5 Consider adoption of Resolution 2022-02-23-002 approving Supplemental Amendment #2 to Work Order #5 with Walker Partners, LLC for additional hydraulic evaluation of the Phase 1B transmission system. ~ *Graham Moore, P.E., Executive Director*

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- H.6 Update, discussion and possible direction to Staff regarding the Authority's Phase 1B Cost and Schedule Updates. ~ Ryan Sowa, P.E., Kimley-Horn & Associates
- H.7 Update, discussion and possible direction to Staff regarding timing and financing of project cost increases. ~ *Graham Moore, P.E., Executive Director*
- H.8 Consider adoption of Resolution 2022-02-23-004 approving Work Order #6 with Kimley-Horn & Associates, Inc. for Owner's Representative Services for March 2022 through February 2023 for the Authority's Phase 1B Program, as recommended by the Technical Committee. ~ *Graham Moore*, *P.E., Executive Director*
- H.9 Consider adoption of Resolution 2022-02-23-005 approving Work Order #2 and Work Order #3 with HVJ Associates for material testing on the Booster Pump Station and Delivery Points Project and the Segment A Pipeline project. ~ Graham Moore, P.E., Executive Director
- H.10 Consider adoption of Resolution 2022-02-23-006 approving the process for mediation on land acquisition efforts. ~ *Graham Moore, P.E., Executive Director*
- I. BOARD MEMBER ITEMS OR FUTURE AGENDA ITEMS Possible acknowledgement by Board Members of future area events and/or requests for item(s) to be placed on a future agenda where no action is required.

J. EXECUTIVE SESSION

- J.1 Executive Session pursuant to the Government Code, Section 551.071 (Consultation with Attorney) and/or Section 551.072 (Real Property Deliberations) regarding:
 - A. Water supply partnership options
 - B. Groundwater leases
 - C. Acquisition of real property for water supply project purposes
- J.2 Action from Executive Session on the following matters:
 - A. Water supply partnership options
 - B. Groundwater leases
 - C. Acquisition of real property for water supply project purposes

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K. ADJOURNMENT

NOTE:

The Board of Directors may meet in Executive Session for any purpose authorized under the Texas Open Meetings Act, Chapter 551 of the Texas Government Code, for any item listed on this agenda or as otherwise authorized by law. An announcement will be made of the basis for Executive Session. The Board of Directors may also publicly discuss any item listed on the agenda for Executive Session.

BOARD MEMBER PACKETS

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A. CALL TO ORDER

No Backup Information for this Item.

BOARD MEMBER PACKETS

Wednesday, February 23, 2022 at 3:00 P.M. County Line SUD Offices, 8870 Camino Real, Kyle, TX 78640

B. ROLL CALL

NAME	TERM ENDS	PRESENT
Mayor Jane Hughson – Vice-Chair (San Marcos)	April 2023	
Regina Franke (CRWA - General Manager, Crystal Clear SUD)	April 2023	
Tim Samford (Kyle – Treatment Operations Manager)	April 2024	
Blake Neffendorf – Treasurer (Buda – Water Resources Coordinator)	April 2023	
Councilmember Mark Gleason (San Marcos)	April 2022	
Humberto Ramos (CRWA – Water Resources Director)	April 2024	
James Earp – Secretary (Kyle – Assistant City Manager)	April 2024	
Tyler Hjorth (San Marcos – Director, Utilities)	April 2024	
Chris Betz – Chair (CRWA - President, County Line SUD)	April 2022	
Derrick Turley (Kyle – Water Quality Technician)	April 2024	
Shaun Condor (San Marcos – Interim Director of Engineering & CIP)	April 2022	
Pat Allen (CRWA - General Manager, Green Valley SUD)	April 2023	
Paul Kite (San Marcos – Asst. Director of Public Services)	April 2022	

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C. PUBLIC COMMENT PERIOD (Note: Each person wishing to speak must register with the Executive Director at info@alliancewater.org before 3:00 p.m.)

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D. CONSENT AGENDA

Items D.1 and D.2 are presented as part of the consent agenda.

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D.1 Consider approval of minutes of the Regular Meeting held January 26, 2022. ~ *Graham Moore, P.E., Executive Director*

Attachment(s)

• 2022 01 26 Board Meeting Minutes

Board Decision(s) Needed:

• Approval of minutes.



Alliance Regional Water Authority

BOARD MEETING

MINUTES

Wednesday, January 26, 2022

The following represents the actions taken by the Board of Directors of the Alliance Regional Water Authority (ARWA) in the order they occurred during the meeting. The Board of Directors convened in a meeting on Wednesday, January 26, 2022 at the County Line Special Utility District offices and via video conference call.

A. CALL TO ORDER.

The Alliance Water Board Meeting was called to order at 3:03 p.m. by Mr. Betz.

B. ROLL CALL.

- Present: Hughson, Franke, Samford, Neffendorf, Gleason, Ramos, Earp, Hjorth, Betz, Turley, Allen and Kite.
- Absent: Vacancy.

C. PUBLIC COMMENT PERIOD

None.

D. CONSENT AGENDA

- D.1 Consider approval of minutes of the Regular Meeting held December 15, 2021.
- D.2 Consider approval of the financial reports for October 2021 and November 2021
- D.3 Consider approval of the Quarterly Investment Report for the period ending December 31, 2021.
 - Motion to approve the consent agenda item as presented was made by Mr. Ramos, seconded by Ms. Hughson and approved on an 12-0 vote.

E. PUBLIC HEARINGS / PRESENTATIONS

None.

F. ITEMS FOR DISCUSSION NOT REQUIRING ACTION

- F.1 Report on Technical Committee activities.
- F.2 Update on status of groundwater management in project target area, and Gonzales County Underground Water Conservation District, Plum Creek Conservation District, Groundwater Management Area 13, Region L Planning Group, Guadalupe-Blanco River Authority, Hays County and CAPCOG activities.
 - No items opened.

G. EXECUTIVE DIRECTOR AND LEGAL COUNSEL REPORTS

- Mr. Moore provided an update on the canceled Leaseholder Meeting.
- Mr. Gershon noted that he sent a legal opinion to the Board and was available by phone should any Director have questions.
- No action.

H. ITEMS FOR ACTION OR DISCUSSION/DIRECTION

- H.1 Consider adoption of Resolution 2022-01-26-001 accepting and approving the Audit Report for the 2020-2021 Financial Audit of the Authority.
 - Mr. Phil Vaughn with Armstrong, Vaughn and Associated attended the meeting and provided an overview of the audit.
 - Mr. Vaughn noted that they are providing a clean opinion.
 - Motion to adopt Resolution 2022-01-26-001 accepting and approving the Audit Report for the 2020-21 Financial Audit of the Authority was made by Mr. Earp, seconded by Ms. Hughson and approved on a 12-0 vote.
- H.2 Update and possible direction to Staff regarding construction of the Authority's Phase 1B program.
 - Mr. Noe provided an update on the construction of the Phase 1B Program.
 - No Action.
- H.3 Update and discussion regarding the status of the Authority's Phase 1B program, and direction to staff and consultants.
 - Mr. Sowa provided an update on the Phase 1B Program.
 - No Action.

- H.4 Consider adoption of Resolution 2022-01-26-002 approving an Interlocal Cooperation Agreement with the City of San Marcos for San Marcos Regional Water Treatment Plant and Blanco Vista Storage Tank Improvements as recommended by the Technical Committee.
 - Mr. Moore provided an overview of the Interlocal Cooperation Agreement.
 - Motion to Amend Section 4 of the Resolution to clearly indicate both parties benefit from jointly bidding the Blanco Vista Storage Tank with the Alliance Water elevated water tanks was made by Mr. Hjorth, seconded by Ms. Hughson and approved on a 12-0 vote.
 - Motion to Amend Exhibit B of the Agreement to match the schedules included in the version of the agreement passed by the San Marcos City Council was made by Ms. Hughson, seconded by Mr. Hjorth and approved on a 12-0 vote.
 - Motion to Amend Section 2.07 of the Agreement to indicate the estimated construction cost for the Blanco Vista Storage Tank is \$5,000,000 was made by Mr. Hjorth, seconded by Ms. Hughson and approved on a 12-0 vote.
 - Motion to adopt Resolution 2022-01-6-002 approving an Interlocal Cooperation Agreement with the City of San Marcos Regional Water Treatment Plant and Blanco Vista Storage Tank Improvements as amended was made by Ms. Hughson, seconded by Mr. Hjorth and approved on an 12-0 vote.
- H.5 Consider adoption of Resolution 2022-01-26-003 approving Work Order #6 with Pape-Dawson Engineers, Inc. for Construction Management and Inspection Services on the Authority's Phase 1B Program through December 31, 2022.
 - Mr. Moore provided a review of the Pape-Dawson Work Orders, previous actions and the discussion that occurred with the review committee.
 - Mr. Ramos noted that Mr. Moore is also responsible for reviewing the Pape-Dawson expenditures and making a quarterly report to the Technical Committee.
 - Motion to adopt Resolution 2022-01-26-003 approving Work Order #6
 with Pape-Dawson Engineer's, Inc. for Construction Management and
 Inspection Services was made by Mr. Ramos, seconded by Mr.
 Neffendorf and approved on a 12-0 vote.
- H.6 Discussion and possible creation of a Temporary Committee and designation of Directors to the Committee for the purpose of reviewing the responses to the Authority's Carrizo Water Supply Project Operation and Maintenance Services RFP and recommending selection of a proponent to the Board of Directors.

- Mr. Moore provided an overview of the need for the review committee.
- Directors Ramos, Neffendorf, Samford, Franke and Hjorth volunteered to participate on the committee.
- Mr. Ramos requested that the Authority's legal counsel, Mike Gershon, also be involved to help facilitate the discussion and to make note of any items that may ultimately be written into an operations contract.
- Mr. Hjorth noted that he would be interested in Tom Taggart joining the committee as a non-voting member.
- Mr. Taggart noted that he must recuse himself as his current employer is interested in the RFP.
- Motion to appoint Directors Ramos, Neffendorf, Samford, Franke and Hjorth to the Temporary Committee was made by Ms. Hughson, seconded by Mr. Kite and approved on a 12-0 vote.
- H.7 Discussion and possible adoption of the Authority's Board of Directors meeting schedule for 2022.
 - Motion to adopt the 2022 Board meeting scheduled as presented was made by Ms. Hughson, seconded by Ms. Franke and approved on an 12-0 vote.
- H.8 Discussion and possible direction to Staff regarding the Authority's process for mediation.
 - The Board indicated a clear preference for virtual mediation when at all possible. Staff was directed to prepare a resolution whereby the entire Board would be eligible to participate in the mediation, with a minimum of two Directors plus the Executive Director participating in any mediation. The approval limits will be discussed in Executive Session at the February Board meeting.
 - No Action.
- I. BOARD MEMBER ITEMS OR FUTURE AGENDA ITEMS
 - No Action.
- J.1 The Board of Directors recessed into Executive Session at 4:26 p.m. pursuant of the Government Code, Section 551.071, to seek the General Counsel's advice regarding matters involving attorney-client privilege, Section 551.072 to discuss water supply project partnership options. The Board of Directors reconvened from Executive Session at 5:14 p.m.
- J.2 Action from Executive Session on the following matters:

- A. Water supply partnership options
- B. Groundwater leases
- C. Acquisition of real property for water supply project purposes.
- Staff is to proceed as directed in Executive Session.
- D. Consideration of Resolution 2022-01-26-004 finding Public Convenience and Necessity for and authorizing the acquisition of certain water pipeline easements and temporary construction easements and certain fee estates for the Alliance Regional Water Authority, Phase 1B Water Line Project in connection therewith, over, across, upon and under certain privately owned real estate properties; authorizing all appropriate actions by the Board of Directors, staff, retained attorneys and engineering and technical consultants in the institution and prosecution of condemnation proceedings to acquire any such needed fee estates and easements and temporary construction easements and related rights of ingress and egress that cannot be acquired through negotiation; declaring further negotiations futile; ratifying and affirming all acts and proceedings heretofore done or initiated by employees, agents, and attorneys of ARWA to acquire such property interests including necessary acts for any applicable lienholders for such properties; authorizing all other lawful action necessary and incidental to such acquisitions or eminent domain proceedings to survey, specify, define, and secure the necessary interests in real property; declaring the sections of the resolution to be severable one from the other in the event any section of the resolution is determined to be invalid; establishing an effective date; and finding and determining that the meeting at which this resolution is passed was noticed and is open to the public as required by law.
- Motion to adopt Resolution 2022-01-26-004 finding Public Convenience and Necessity and authorizing Eminent Domain Proceedings, if necessary, for acquisitions as presented was made by Mr. Neffendorf, seconded by Mr. Ramos and approved on an 12-0 vote.

K. ADJOURNMENT

 Meeting was adjourned at 5:16 p.m. based on the motion by Mr. Neffendorf, seconded by Ms. Hughson on an 12-0 vote.

APPROVED:,	2022
	ATTEST:
Chair, Board of Directors	Secretary, Board of Directors

BOARD MEMBER PACKETS

Wednesday, February 23, 2022 at 3:00 P.M. County Line SUD Offices, 8870 Camino Real, Kyle, TX 78640

D.2 Consider approval of the financial report for December 2021. ~ *Graham Moore, P.E., Executive Director*

Background/Information

Attached is the financial report for the periods ending December 2021.

Attachment(s)

2021 12 31 Financial Report

Board Decision(s) Needed:

Approval of the financial report for the periods ending December 2021.



Alliance Regional Water Authority

Financial Statements (Compilation)

For the One Month Ended and Year-to-Date December 31, 2021

Alliance Regional Water Authority Balance Sheet

	Dec 31, 21
ASSETS	
Current Assets	
Checking/Savings	
1004 · Broadway Bank	
1005 · Broadway Checking (8040)	-496,889.49
1010 · Broadway Savings (4415)	1,600,803.91
• • • •	
Total 1004 · Broadway Bank	1,103,914.42
1015 · TexStar	
1015-01 · TexStar (3310)	45,568,672.18
1015-02 · TexStar (0300)	24,524,009.90
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Total 1015 · TexStar	70,092,682.08
1050 · Broadway Bank (Reserved)	
1051 · CRWA Debt Service (2785)	1,549,420.44
1052 · Kyle Debt Service (2787)	1,266,162.51
1055 · San Marcos Debt Service (6390)	1,827,018.92
1056 · Buda Debt Service (6391)	278,891.63
Total 1050 · Broadway Bank (Reserved)	4,921,493.50
1100 · Escrow Accounts	
1105 · BOKF, Escrow, CRWA Series 2015A	335,084.71
1106 · BOKF, Escrow, Kyle Series 2015B	221,958.25
1107 · BOKF, Escrow, CRWA Series 2017A	266,108.02
1108 · BOKF, Escrow, Kyle Series 2017B	242,555.25
1109 · BOKF, Escrow, SM Series 2017C	334,008.02
1110 · BOKF, Escrow, Buda Series 2017D	43,179.42
1111 · BOKF, Escrow, CRWA Series 2019A	5,028,946.50
1112 · BOKF, Escrow, Kyle Series 2019B	4,586,309.46
1113 · BOKF, Escrow, SM Series 2019C	5,872,525.61
1114 · BOKF, Escrow, Buda Series 2019D	754,145.73
1115 · BOKF, Escrow, CRWA Series 2020A	29,070,567.85
1116 · BOKF, Escrow, CRWA 2020A-LM67	8,346,639.09
1117 · BOKF, Escrow, Kyle Series 2020B	26,509,566.22
1118 · BOKF, Escrow, Kyle 2020B-LM68	7,606,422.39
1119 · BOKF, Escrow, SM Series 2020C	33,780,863.65
1120 · BOKF, Escrow, SM 2020C-LM69	9,686,811.45
1121 · BOKF, Escrow, BUDA Series 2020D	4,687,174.77
1122 · BOKF, Escrow, Buda 2020D-LM70	1,365,255.33
Total 1100 · Escrow Accounts	138,738,121.72
Total Checking/Savings	214,856,211.72
Total Current Assets	214,856,211.72
Fixed Assets	
1405 · Engineering & Construction Cost	2,402,294.20
1420 · Projects in Progress (Cash)	
1420-01 · Legal Support	64,673.27
1420-02 · Hydrogelogic Support	184,089.50
1420-03 · PCCD Permitting	105,095.16
1420-04 · Kyle Water Model	25,000.00
1420-11 · Legal Support, GBRA	45,251.01
Total 1420 · Projects in Progress (Cash)	424,108.94

Alliance Regional Water Authority Balance Sheet

	Dec 31, 21
1430 · Projects in Progress Eng (Cash)	
1430-02 · Engineering - Plumbing Plan	17,663.79
1430-03 Engineering Fees-ROW	11,594.69
1430-05 · Engineering - Rate Study	50,760.00
1430-06 · DPR Study	59,880.00
1430-07 · Alignment Study	261,120.80
1430-08 · Prelim Engineering-Well Field	65,586.00
1430-09 · GCUWCD Monitoring Wells	129,175.39
1430-10 · 2017 SWIFT Funding Apps	23,107.96
1430-11 · Blanco Basin WW	41,880.00
1430-11 Blaileo Basin VVV	107,761.14
1430-13 · ARWA-GBRA MOU Study	15,000.00
1430-14 · Phase 1A GIS	59,840.62
	<u> </u>
Total 1430 · Projects in Progress Eng (Cash)	843,370.39
1440 · Projects in Prog Eng. (Finance)	540,000,04
1440-01 · Engineering-Phase 1A Pipeline	540,838.84
1440-02 · Engineering-Phase 1A Pump Stat	1,001,947.66
1440-03 · Engineering-ROW Acquisition	412,064.67
1440-04 · Phase 1A Const Observation	907,824.16
1440-05 · Phase 1A-Construction Trailer	60,489.29
1440-06 · Phase 1A Segment A Construction	1,734,150.32
1440-07 · Phase 1A BPS Construction	5,142,172.37
1440-08 · Phase 1A Segment B Construction	3,980,928.06
1440-15 · Land Acquisition Phase 1B	21,169,830.20
1440-16 · Phase 1B-Owners Rep	9,766,877.69
1440-17 · Phase 1B Environmental	2,846,082.77
1440-18 · Phase 1B Segment A Design	2,811,097.09
1440-19 · Phase 1B Segment B Design	2,692,798.54
1440-20 · Phase 1B Segment C Design	3,460,400.87
1440-21 · Phase 1B Segment D Design	2,385,127.66
1440-22 · Phase 1B Segment E Design	1,877,117.57
1440-23 · Phase 1B Land Attorney	1,529,196.55
1440-24 · Phase 1B Hydrogeology	532,654.75
1440-25 · Phase 1B WTP Design	4,817,078.35
1440-26 · Raw Water Infr.	1,506,229.50
1440-27 · Phase 1B Program Survey	3,105,295.00
1440-28 · Phase 1B BPS Design	2,590,321.34
1440-29 · GVEC Construction-in-Aid	1,740,143.30
1440-30 · Phase 1B Inline Tanks	440,344.06
1440-31 · Construction Mgmt & Inspection	1,325,893.09
1440-32 · Phase 1B Construction ARWA Only	2,784,665.00
1440-33 · SCADA Programming	230,704.60
1440-34 · Materials Testing	15,336.25
1440-35 · Shared Construction	4,999,599.38
Total 1440 · Projects in Prog Eng. (Finance)	86,407,208.93
1447 · Land & Easements	943,215.70
1448 · Capitalized Interest	152 260 02
1448-51 · Cap Interest, CRWA Series 2015A	152,369.03
1448-52 · Cap Interest, Kyle Series 2015B	222,143.28
1448-53 · Cap Interest, CRWA Series 2017A	127,269.80
1448-54 · Cap Interest, Kyle Series 2017B	116,100.88
1448-55 · Cap Interest, SM Series 2017C	65,904.35
1448-56 · Cap Interest, Buda Series 2017D	9,576.21
Total 1448 · Capitalized Interest	693,363.55
Total Fixed Assets	91,713,561.71

Alliance Regional Water Authority Balance Sheet

	Dec 31, 21
Other Assets 1900 · Deferred Outflow	42,509.25
Total Other Assets	42,509.25
TOTAL ASSETS	306,612,282.68
LIABILITIES & EQUITY Liabilities Current Liabilities Accounts Payable 2000 · Accounts Payable	855,022.91
Total Accounts Payable	855,022.91
Credit Cards 2006 · Chase Bank VISA Card	3,384.06
Total Credit Cards	3,384.06
Other Current Liabilities 2100 · Payroll Liabilities 2102 · 401(a) Liability 2103 · Net Pension Liability 2104 · Pension Deferred Inflows 2106 · Accrued Vacation 2300 · Accrued Costs 2350 · Accrued Interest Payable 2351 · Accrued Int Payable, CRWA 2015A 2352 · Accrued Int Payable, Kyle 2015B 2353 · Accrued Int Payable, CRWA 2017A 2354 · Accrued Int Payable, Kyle 2017B 2355 · Accrued Int Payable, SM 2017C 2356 · Accrued Int Payable, Buda 2017D 2357 · Accrued Int Payable, CRWA 2019A 2358 · Accrued Int Payable, Kyle 2019B 2359 · Accrued Int Payable, Buda 2019D 2361 · Accrued Int Payable, CRWA 2020A 2362 · Accrued Int Payable, Kyle 2020B 2363 · Accrued Int Payable, SM 2020C 2364 · Accrued Int Payable, Buda 2020D	2.51 3,313.98 9,067.00 2,473.00 42,151.49 330,643.18 22,146.75 31,848.21 86,631.57 79,009.29 63,819.47 9,020.25 202,473.90 184,742.46 149,936.67 21,268.89 231,888.60 211,458.96 147,866.40 20,940.75
Total 2350 · Accrued Interest Payable	1,463,052.17
Total Other Current Liabilities	1,850,703.33
Total Current Liabilities Long Term Liabilities 2501 · Bond Payable, CRWA Series 2015A 2502 · Bond Payable, Kyle Series 2015B 2503 · Bond Payable, CRWA Series 2017A 2504 · Bond Payable, Kyle Series 2017B 2505 · Bond Payable, SM Series 2017C 2506 · Bond Payable, Buda Series 2017D 2507 · Bond Payable, CRWA Series 2019A 2508 · Bond Payable, Kyle Series 2019B 2509 · Bond Payable, SM Series 2019C 2510 · Bond Payable, Buda Series 2019D 2511 · Bond Payable, CRWA Series 2020A 2512 · Bond Payable, Kyle Series 2020B 2513 · Bond Payable, SM Series 2020C 2514 · Bond Payable, Buda Series 2020D	2,709,110.30 3,030,000.00 3,075,000.00 9,075,000.00 8,275,000.00 1,395,000.00 25,790,000.00 23,525,000.00 29,315,000.00 4,160,000.00 37,865,000.00 43,955,000.00 6,225,000.00
Total Long Term Liabilities	240,030,000.00
Total Liabilities	242,739,110.30

6:32 AM 01/23/22 Accrual Basis

Alliance Regional Water Authority Balance Sheet

	Dec 31, 21	
Equity		
2925 · Net Investment in Capital Asset	7,521,343.98	
2950 Retained Earnings	26,983,295.40	
Net Income	29,368,533.00	
Total Equity	63,873,172.38	
TOTAL LIABILITIES & EQUITY	306,612,282.68	

Alliance Regional Water Authority Profit Loss / Budget vs. Actual

For the One Month and Three Months Ended December 31, 2021

<u> </u>	December 2021	October 2021 December 2021	Annual Budget	Over/Under Budget	% of Annual Budg
ary Income/Expense					
4010 · Project Contribution					
4011 · City of San Marcos	1,456,236.71	1,456,236.71	6,135,730.00	-4,679,493.29	23.73
4012 · City of Kyle	0.00	967,609.27	4,114,580.00	-3,146,970.73	23.52
4013 · City of Buda	207,416.58	207,416.58	873,690.00	-666,273.42	23.74
4014 · Canyon Regional Water Authority	0.00	1,075,950.56	4,571,520.00	-3,495,569.44	23.54
4015 · GBRA Total 4010 · Project Contribution	27,022,998.30 28,686,651.59	27,022,998.30 30,730,211.42	15,695,520.00	27,022,998.30 15,034,691.42	195.79
4200 · Shared Water	20,000,001.39	30,730,211.42	13,093,320.00	13,034,031.42	193.73
4210 · Shared Water, City of Buda	36,359.00	108,555.00	0.00	108,555.00	100.0
4211 · Shared Water, County Line SUD	0.00	7,745.00	0.00	7,745.00	100.0
Total 4200 · Shared Water	36,359.00	116,300.00	0.00	116,300.00	100.0
4250 · Non Potable Water Sales	3,156.51	6,316.26	31,600.00	-25,283.74	19.99
4300 · Broadway Interest Income					==
4311 · City of San Marcos 4312 · City of Kyle	289.68 249.05	429.95 359.85	550.00 425.00	-120.05 -65.15	78.17 84.6
4313 · City of Buda	38.49	53.69	75.00	-21.31	71.59
4314 · Canyon Regional Water Authority	279.69	413.40	450.00	-36.60	91.87
Total 4300 · Broadway Interest Income	856.91	1,256.89	1,500.00	-243.11	83.79
4350 · Escrow Accounts Income					
4351 · BOKF, CRWA Series 2015A	4.88	15.98	0.00	15.98	100.
4352 · BOKF, Kyle Series 2015B	3.23	10.58	0.00	10.58	100.
4353 · BOKF, CRWA Series 2017A 4354 · BOKF, Kyle Series 2017B	3.88 3.53	12.69 11.56	0.00 0.00	12.69 11.56	100. 100.
4355 · BOKF, SM Series 2017C	4.86	15.92	0.00	15.92	100
4356 · BOKF, Buda Series 2017D	0.63	2.06	0.00	2.06	100.
4357 · BOKF, CRWA Series 2019A	188.57	687.66	0.00	687.66	100.
4358 · BOKF, Kyle Series 2019B	171.97	627.11	0.00	627.11	100
4359 · BOKF, SM Series 2019C	219.41	799.95	0.00	799.95	100
4360 · BOKF, Buda Series 2019D	29.95	109.60	0.00	109.60	100
4361 · BOKF, CRWA Series 2020A 4362 · BOKF, CRWA Series 2020A-LM67	423.34 121.55	1,386.11 397.98	0.00 0.00	1,386.11 397.98	100 100
4363 · BOKF, Kyle Series 2020B	386.04	1,264.00	0.00	1,264.00	100
4364 · BOKF, Kyle Series 2020B-LM68	110.77	362.67	0.00	362.67	100
4365 · BOKF, SM Series 2020C	491.93	1,610.69	0.00	1,610.69	100
4366 · BOKF, SM Series 2020C-LM69	141.06	461.87	0.00	461.87	100
4367 · BOKF, Buda Series 2020D	68.26	223.49	0.00	223.49	100.
4368 · BOKF, Buda Series 2020D-LM70	19.88	65.10	0.00	65.10	100.
Total 4350 · Escrow Accounts Income 4370 · TexStar Interest Income	2,393.74	8,065.02	0.00	2,361.15	100.
4371 · City of San Marcos	205.08	342.63	4,300.00	-3,957.37	7.9
4372 · City of Kyle	161.10	269.14	3,400.00	-3,130.86	7.9
4373 · City of Buda	29.05	48.53	600.00	-551.47	8.0
4374 · Canyon Regional Water Authority	176.66	295.14	3,700.00	-3,404.86	7.9
Total 4370 · TexStar Interest Income	571.89	955.44	12,000.00	-11,044.56	7.9
4901 · Miscellaneous Income	5,542.84	5,542.84			
otal Income	28,735,532.48	30,868,647.87	15,740,620.00	15,116,781.16	196.1
xpenses	== ==				
6000 · Groundwater Reservation Costs	55,231.11	221,283.00	1,437,600.00	-1,216,317.00	15.3
6010 · Shared Water Costs 6015 · Shared Water, City of Kyle	22,147.13	44,276.49	0.00	44,276.49	100
6020 · Shared Water, City of San Marcos	21,989.00	43,978.00	0.00	43,978.00	100
Total 6010 · Shared Water Costs	44,136.13	88,254.49	0.00	88,254.49	100
6200 · Plant Operations & Maintenance					
6201 · O&M, General	337.04	2,399.49	9,000.00	-6,600.51	26.6
6240 · O&M, Buda BPS	137.10	530.10	19,510.00	-18,979.90	2.7
Total 6200 · Plant Operations & Maintenance	474.14	2,929.59	28,510.00	-25,580.41	10.2
7125 · Auditing fees	0.00	0.00	13,000.00	-13,000.00	0
7210 · Bank Fees 7250 · Interest Expense	369.63	1,017.99	2,500.00	-1,482.01	40.7
7250-511 · Interest Expense - CRWA 2015A	4,921.50	14,764.50	59,058.00	-44,293.50	25
7250-52 · Interest Expense - Kyle 2015B	7,077.38	21,232.14	84,928.50	-63,696.36	25
7250-53 · Interest Expense - CRWA 2017A	19,251.46	57,754.38	231,017.50	-173,263.12	25
7250-54 · Interest Expense - Kyle 2017B	17,557.62	52,672.86	210,691.50	-158,018.64	25
7250-55 · Interest Expense - SM 2017C	14,102.66	42,307.98	169,232.00	-126,924.02	25
7250-56 · Interest Expense - Buda 2017D	2,004.50	6,013.50	24,054.00	-18,040.50	25
7250-57 · Interest Expense - CRWA 2019A	44,994.20	134,982.60	539,930.50	-404,947.90	25
7250-58 · Interest Expense - Kyle 2019B	41,053.88	123,161.64	492,646.50	-369,484.86	25
7250-59 · Interest Expense - SM 2019C	33,319.26	99,957.78	399,831.00 56,717.00	-299,873.22	25
	4,726.42	14,179.26	56,717.00 618,369.50	-42,537.74 -463,777.10	25 25
7250-60 · Interest Expense - Buda 2019D	51 520 00	15/ 502 /0		-400,///.10	25
7250-61 · Interest Expense - CRWA 2020A	51,530.80 46,990.88	154,592.40 140.972.64		-422 017 86	25
	51,530.80 46,990.88 32,859.20	154,592.40 140,972.64 98,577.60	563,890.50 394,310.50	-422,917.86 -295,732.90	
7250-61 · Interest Expense - CRWA 2020A 7250-62 · Interest Expense - Kyle 2020B	46,990.88	140,972.64	563,890.50		25. 25. 25.

Alliance Regional Water Authority Profit Loss / Budget vs. Actual

For the One Month and Three Months Ended December 31, 2021

	December 2021	October 2021 December 2021	Annual Budget	Over/Under Budget	% of Annual Budget
7325 · Dues	0.00	5.480.00	7,500.00	-2.020.00	73.07%
7350 · Insurance - Liability, E&O	0.00	3,073.28	7,000.00	-3.926.72	43.9%
7400 · Legal Fees	6,795.07	6,795.07	115,000.00	-108,204.93	5.91%
7410 · Newspaper Public Notices	0.00	0.00	3,500.00	-3,500.00	0.0%
7425 · Contract Services-Lobbyist	0.00	0.00	72,000.00	-72,000.00	0.0%
7430 · Agency Mgmt Public Relations	0.00	0.00	50,000.00	-50,000.00	0.0%
7440 · Region L Contributions	0.00	0.00	2,500.00	-2,500.00	0.0%
7450 · Permit & Fees	0.00	81,899.87	0.00	81,899.87	100.0%
7500 · Supplies	1,288.70	13,734.67	19,500.00	-5,765.33	70.43%
7600 · Telephone, Telecommunications	126.31	505.34	3,800.00	-3,294.66	13.3%
7700 · Travel, Conferences & Meetings	191.11	442.63	5,000.00	-4,557.37	8.85%
7800 · Employee Expenses					
7810 · Salaries and wages	26,858.96	78,482.24	389,225.19	-310,742.95	20.16%
7820 · Auto Allowance	969.24	2,907.72	12,600.00	-9,692.28	23.08%
7821 · Phone Allowance	207.70	623.10	2,700.00	-2,076.90	23.08%
7830 · Payroll taxes	1,247.19	4,157.59	27,760.61	-23,603.02	14.98%
7840 · Employee Insurance	2,593.52	7,694.08	47,637.50	-39,943.42	16.15%
7850 · Retirement	1,912.19	5,593.43	33,267.70	-27,674.27	16.81%
7860 · Licenses & Permits	0.00	111.00	2,700.00	-2,589.00	4.11%
7865 · Mileage Reimbursement	0.00	0.00	3,150.00	-3,150.00	0.0%
7870 · Employee Expenses, Other	0.00	0.00	6,000.00	-6,000.00	0.0%
Total 7800 · Employee Expenses	33,788.80	99,569.16	525,041.00	-425,471.84	18.96%
Total Expenses	467,444.26	1,500,114.87	6,192,970.00	-4,692,855.13	24.22%
Net Ordinary Income	28,268,088.22	29,368,533.00	9,547,650.00	19,809,636.29	307.6%
Other Income/Expense					
Other Expense					
8550 · Bond Principal					
8550-51 · Bond Principal - CRWA 2015A	0.00	0.00	190,000.00	-190,000.00	0.0%
8550-52 · Bond Principal - Kyle 2015	0.00	0.00	95,000.00	-95,000.00	0.0%
8550-53 · Bond Principal - CRWA 2017A	0.00	0.00	270,000.00	-270,000.00	0.0%
8550-54 · Bond Principal - Kyle 2017B	0.00	0.00	245,000.00	-245,000.00	0.0%
8550-55 · Bond Principal - SM 2017C	0.00	0.00	550,000.00	-550,000.00	0.0%
8550-56 · Bond Principal - Buda 2017D	0.00	0.00	80,000.00	-80,000.00	0.0%
8550-57 · Bond Principal - CRWA 2019A	0.00	0.00	750,000.00	-750,000.00	0.0%
8550-58 · Bond Principal - Kyle 2019B	0.00	0.00	680,000.00	-680,000.00	0.0%
8550-59 Bond Principal - SM 2019C	0.00	0.00	1,500,000.00	-1,500,000.00	0.0%
8550-60 · Bond Principal - Buda 2019D	0.00	0.00	215,000.00	-215,000.00	0.0%
8550-61 · Bond Principal - CRWA 2020A	0.00	0.00	1,110,000.00	-1,110,000.00	0.0%
8550-62 · Bond Principal - Kyle 2020B	0.00	0.00	1,010,000.00	-1,010,000.00	0.0%
8550-63 · Bond Principal - Nyle 2020C	0.00	0.00	2,190,000.00	-2,190,000.00	0.0%
8550-64 · Bond Principal - SM 20200	0.00	0.00	310,000.00	-310,000.00	0.0%
Total 8550 · Bond Principal	0.00	0.00	9,195,000.00	-9,195,000.00	0.0%
Total Other Expense	0.00	0.00	9,195,000.00	-9,195,000.00	0.0%
Net Other Income	0.00	0.00	-9,195,000.00	9,195,000.00	0.0%
Net Income	28.268.088.22	29,368,533.00	352,650.00	27,915,438.22	8,327.95%
	20,200,000.22	20,000,000.00	302,000.00	2.,0.0,.00.22	5,525070

Alliance Regional Water Authority Chase VISA Credit Card Transactions December 31, 2021

Type	Date	Name	Split	Amount	Balance
006 · Chase Bank VISA	 Card				5,055.95
Credit Card Charge	11/25/2021	Adobo Acropro	7500 · Supplies	16.99	5,072.94
Credit Card Charge	11/26/2021	Squarespace Inc	7500 · Supplies	28.15	5,101.09
Credit Card Charge	11/28/2021	Solve Networks	7500 · Supplies	205.00	5,306.09
Credit Card Charge	11/29/2021	Fluid Meter Service	6201 · O&M, General	690.00	5,996.09
Credit Card Charge	11/30/2021	Verizon	7600 · Telephone, Telecom	252.66	6,248.75
Credit Card Charge	11/30/2021	TCEQ	7860 · Licenses & Permits	111.00	6,359.75
Credit Card Charge	12/01/2021	Stamps Com	7500 · Supplies	18.17	6,377.92
Credit Card Charge	12/01/2021	UPS Store	7500 · Supplies	6.00	6,383.92
Credit Card Charge	12/02/2021	ARC Lakeside Blueprint	7500 · Supplies	515.16	6,899.08
Credit Card Charge	12/03/2021	Pedernales Electric	6201 · O&M, General	157.87	7,056.95
Credit Card Charge	12/08/2021	El Alma Cafe	7700 · Travel, Conferences	46.23	7,103.18
Credit Card Charge	12/08/2021	UPS Store	7500 · Supplies	12.00	7,115.18
Credit Card Charge	12/08/2021	Grainger	7500 · Supplies	19.58	7,134.76
Credit Card Charge	12/09/2021	Fedex	7500 · Supplies	24.28	7,159.04
Credit Card Charge	12/09/2021	Zoom.US	7500 · Supplies	29.98	7,189.02
Check	12/10/2021	Chase	1005 · Broadway Checking	-5,055.95	2,133.07
Credit Card Charge	12/10/2021	Jersey Mikes	7700 · Travel, Conferences	28.33	2,161.40
Credit Card Charge	12/10/2021	Rackspace	7500 Supplies	215.00	2,376.40
Credit Card Charge	12/12/2021	Fedex	7500 · Supplies	27.33	2,403.73
Credit Card Charge	12/15/2021	Verizon	7600 · Telephone, Telecom	126.31	2,530.04
Credit Card Charge	12/16/2021	Adobo Acropro	7500 · Supplies	16.23	2,546.27
Credit Card Charge	12/16/2021	Rackspace ·	7500 · Supplies	115.01	2,661.28
Credit Card Charge	12/16/2021	Kreuz Market	7700 · Travel, Conferences	35.58	2,696.86
Credit Card Charge	12/16/2021	Kreuz Market	7700 · Travel, Conferences	9.81	2,706.67
Credit Card Charge	12/17/2021	Schmidt & Sons	6240 · O&M, Buda BPS	137.10	2,843.77
Credit Card Charge	12/18/2021	Amtek Information	7500 · Supplies	199.98	3,043.75
Credit Card Charge	12/20/2021	Office Depot	7500 · Supplies	89.98	3,133.73
Credit Card Charge	12/20/2021	A-Line Auto Parts	6201 · O&M, General	125.25	3,258.98
Credit Card Charge	12/21/2021	Logan's	7700 · Travel, Conferences	71.16	3,330.14
Credit Card Charge	12/22/2021	A-Line Auto Parts	6201 · O&M, General	53.92	3,384.06
otal 2006 · Chase Bank \	/ISA Card			-1,671.89	3,384.06
AL				-1,671.89	3,384.00

BOARD MEMBER PACKETS

Wednesday, February 23, 2022 at 3:00 P.M. County Line SUD Offices, 8870 Camino Real, Kyle, TX 78640

F.1 Report on Technical Committee activities. ~ *Graham Moore, P.E., Executive Director*

Background/Information

The following items were discussed by the Committee at its 2/9 meeting:

- Received an update on construction of the Phase 1B projects (Item H.2).
- Received an update on the Phase 1B program (Item H.3).
- Reviewed and recommended the Board approve Work Orders #10 and #11 with Blanton and Associates, Inc. for additional environmental investigation work. (Item H.4).
- Received an update on the Phase 1B Cost and Schedule. (Item H.6).
- Received an update on timing and financing of project cost increases (Item H.7).
- Reviewed and recommended the Board approve Work Orders #6 with Kimley-Horn and Associates, Inc. for Owner's Representative Services for March 1, 2022 through February 28, 2023. (Item H.8).
- Discussed and recommended the Authority join the Texas 811 System. Will be brought to a future Board meeting for possible action.
- Received an update on area water meetings (Item F.2).

Board Decision(s) Needed:

None.

BOARD MEMBER PACKETS

Wednesday, February 23, 2022 at 3:00 P.M. County Line SUD Offices, 8870 Camino Real, Kyle, TX 78640

F.2 Update on status of groundwater management in project target area, and Gonzales County Underground Water Conservation District, Plum Creek Conservation District, Groundwater Management Area 13, Region L Planning Group, Guadalupe-Blanco River Authority, Hays County and Capital Area Planning Group activities.

Gonzales County Underground Water Conservation District (GCUWCD)

The GCUWCD met on February 8th. No items affecting the Authority were discussed.

Plum Creek Conservation District (PCCD)

The PCCD met on February 15th. No items directly impacting the Authority were discussed.

Groundwater Management Area 13

No update.

Region L Planning Group

Region L met on February 17th.

<u>Guadalupe-Blanco River Authority; Hays County Activities; CAPCOG Activities</u> No update.

Board Decision(s) Needed:

None.

BOARD MEMBER PACKETS

Wednesday, February 23, 2022 at 3:00 P.M. County Line SUD Offices, 8870 Camino Real, Kyle, TX 78640

G. EXECUTIVE DIRECTOR AND LEGAL COUNSEL REPORTS - Update on future meeting dates, locations, status of Authority procurements, Executive Director activities, other operational activities and the status of legal issues, where no action is required. ~ *Graham Moore, P.E., Executive Director / Mike Gershon, Lloyd Gosselink Rochelle & Townsend, P.C.*

EXECUTIVE DIRECTOR

- The Leaseholder Update meeting is tentatively scheduled for April 9, 2022.
- Responses to the RFP for Operations and Maintenance of the Carrizo Water Project are due on Thursday, February 25th.

BOARD MEMBER PACKETS

Wednesday, February 23, 2022 at 3:00 P.M. County Line SUD Offices, 8870 Camino Real, Kyle, TX 78640

H.1 Update and discussion regarding the Authority's public relations activities possible direction to staff and consultants. ~ *CD&P*

Background/Information

Representatives of CD&P will update the Board on their recent public relations activities.

Attachment(s)

• Public Relations Highlights – November 2021 to January 2022

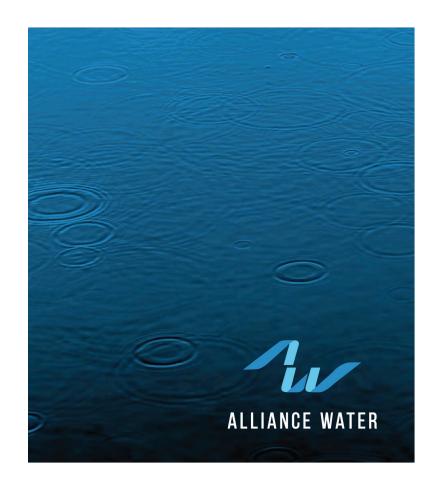
Board Decision(s) Needed:

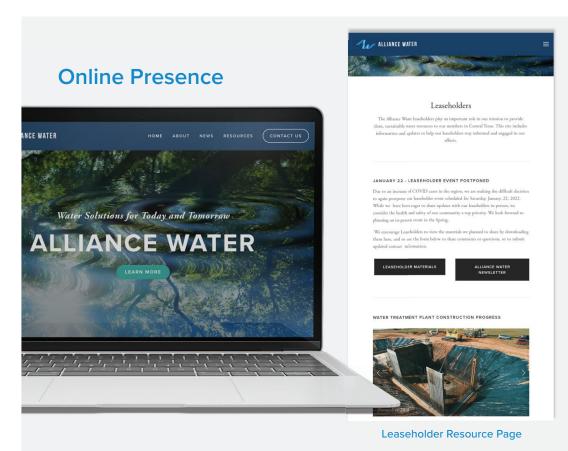
None.

Public Relations Highlights

Nov. 2021 - Jan. 2022



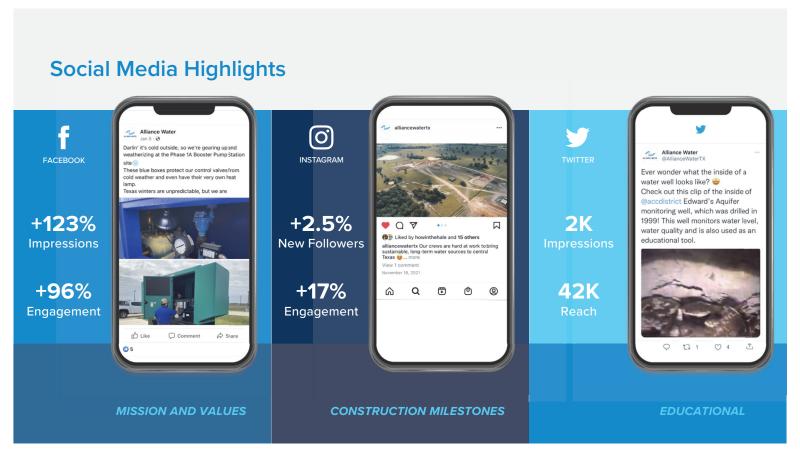






Updated FAQ's





Social Media Policy

Updated Dec. 2021

GOALS

- To inform the community, members, and stakeholders of relevant updates, news, educational content, and information related to efforts to bring long-term sustainable water resources to the Central Texas region and its members.
- Provide opportunities for the public to learn about and engage with Alliance Water through comments, likes, shares, or direct messages.

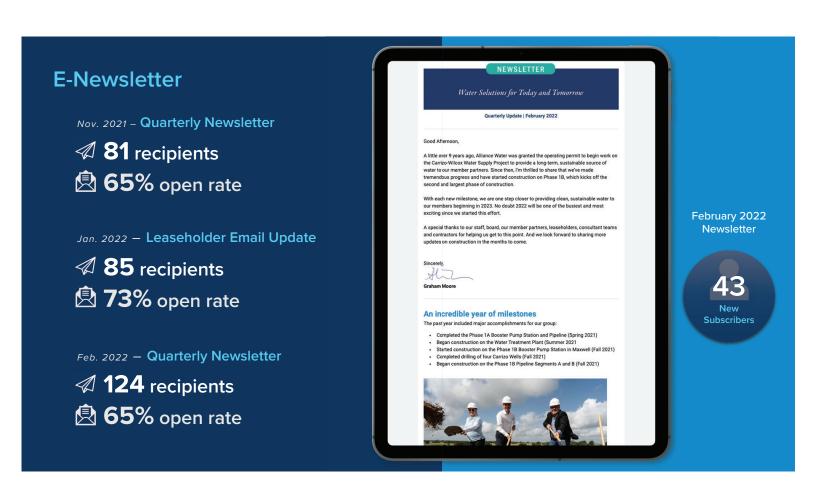
CONTENT RULES

Comments that are considered inflammatory, profane, off-topic or aimed as personal attacks on individuals or member entities will be removed or hidden based on the discretion of Alliance Water and the individuals responsible to post content and moderate public comments.

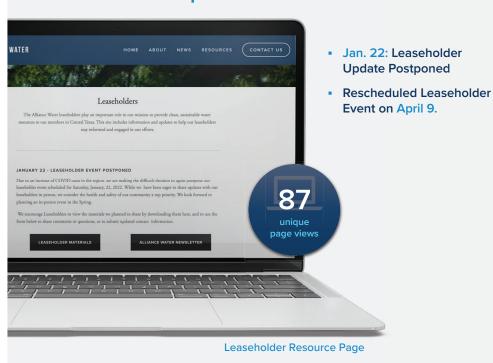
When comments include misinformation, efforts will be made to communicate with the individual responsible for the comment to provide accurate information. Comments may be removed based on discussions with the individual.

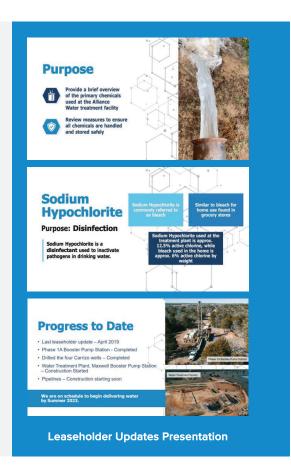
MODERATION

Only staff and contracted consultants are authorized to post on Alliance Water's social media channel. This includes Facebook, Twitter, Instagram, YouTube, LinkedIn, and other platforms for which a public profile is created, and content is posted.

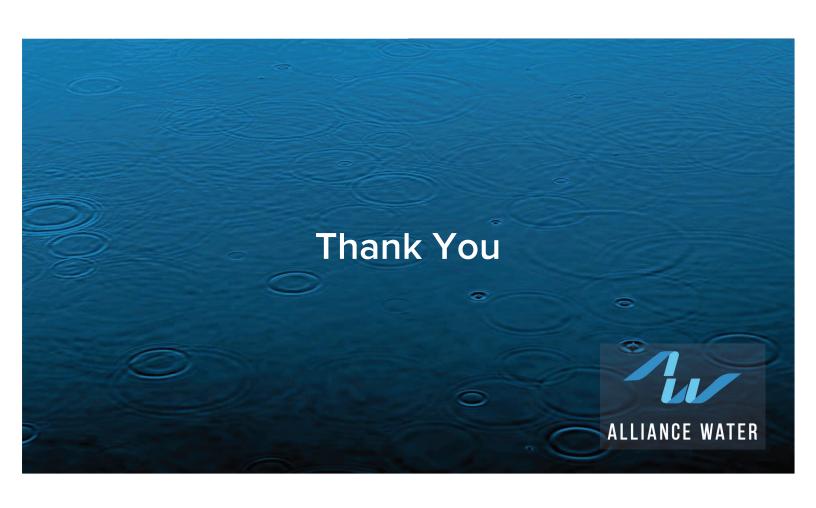


Leaseholder Updates









BOARD MEMBER PACKETS

Wednesday, February 23, 2022 at 3:00 P.M. County Line SUD Offices, 8870 Camino Real, Kyle, TX 78640

H.2 Update and possible direction to Staff regarding construction of the Authority's Phase 1B program. ~ Chris Noe, P.E., Pape-Dawson Engineers

Background/Information

Chris Noe with Pape Dawson will update the Board on recent construction activities associated with the Phase 1B program.

Attachment(s)

• Phase 1B Construction Update – February 23, 2022

Board Decision(s) Needed:

None.



Water Treatment Plant / Raw Water Infrastructure (Archer Western / Walker Partners)

PAPE-DAWSON ENGINEERS

Construction Status

- · Flow EQ Basin walls have been completed
- · Recycle Pump Station walls are being formed and placed
- Clearwell foundation complete, inlet/outlet piping installed
- Raw Water Tanks sub grade complete, select fill being placed, inlet/outlet piping installed
- Filter Complex excavation for piping trenches and footings in progress
- · Site grading and excavation north of Filter Complex Building
- Alterman continued to tie duct bank conduit and reinforcing steel cages
- Construction crew headcount up to 16



Construction Status

- Power and Internet connected to office trailers
- · Ground Storage Tank select fill being placed
- Detention pond berms, swales, and trickle channel construction in progress
- Reviewed and provided comments to HVJ testing proposal



Segment A (Garney Construction / LAN)

PAPE-DAWSON ENGINEERS

Construction Status

- Began landowner notification
- · Began placing access gates and locks
- · Began easement survey and staking
- · Began clearing
- Conducted site visit to Parcel 0035C to determine if trees can be preserved
- Reviewed and provided comments to HVJ testing proposal
- · Conducting WOUS documentation
- · Began field observation reporting





Construction Status

• Agreement executed, awaiting NTP approval from TWDB



OVERSIGHT RECAP



PROJECT	RF	ls	Submi	ttals	Test Reports		
	This Period	To Date	This Period	To Date	This Period	To Date	
WTP/RWI	8	40	14	143	43	82	
BPS	6	11	19	41	23	45	
Seg A	4	7	3	9			

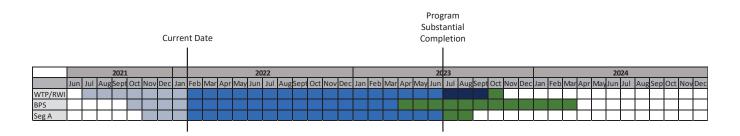


PROJECT	CONTRACT VALUE	BILLED TO DATE	REMAINING	% COMPLETE
WTP/RWI	\$54,599,281.00	\$5,124,697.30	\$49,474,583.70	9.39%
BPS	\$19,759,331.00	\$1,437,902.00	\$18,321,429.00	7.28%
EST	\$0.00	\$0.00	\$0.00	0.00%
Seg A	\$49,471,384.71	\$0.00	\$49,471,384.71	0.00%
Seg B	\$37,629,104.42	\$0.00	\$37,629,104.42	0.00%
Seg D	\$0.00	\$0.00	\$0.00	0.00%
Seg C	\$0.00	\$0.00	\$0.00	0.00%
Seg E	\$0.00	\$0.00	\$0.00	0.00%

7

SCHEDULE DURATIONS





	Program Sub				
Notice to Project Proceed		Original Sub Completion	Current Sub Completion	Final Completion	Completion Status
WTP/RWI	7/16/2021	7/16/2023	9/3/2023	11/2/2023	Behind 9 wks
BPS	10/25/2021		3/19/2023	3/18/2024	On Time
Seg A	11/16/2021		6/9/2023	8/8/2023	On Time

PROGRESS PHOTOS





WTP/RWI – Recycle Pump Station



WTP/RWI – Tank Piping Encasement



WTP/RWI – Clearwell Leveling Base

9

PROGRESS PHOTOS





WTP/RWI – Filter Complex Excavation



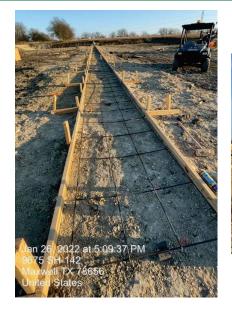
WTP/RWI – Flow EQ Basin Walls



BPS – Ground Storage Tank Base

PROGRESS PHOTOS







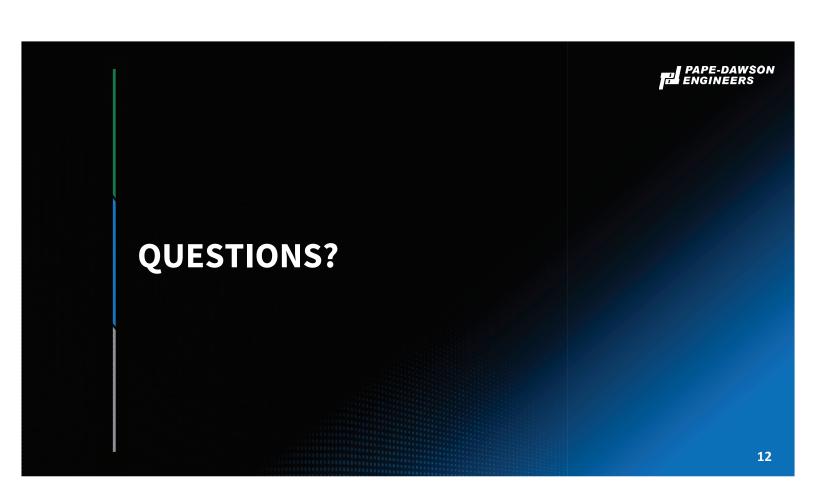


BPS – Detention Pond Trickle Channel

BPS – Grading Swale #1

Seg A - LOC Fencing

11



REGULAR MEETING Alliance Regional Water Authority Board of Directors

BOARD MEMBER PACKETS

Wednesday, February 23, 2022 at 3:00 P.M. County Line SUD Offices, 8870 Camino Real, Kyle, TX 78640

H.3 Update and discussion regarding the status of the Authority's Phase 1B program, and direction to staff and consultants. ~ *Ryan Sowa, P.E., Kimley-Horn & Associates*

Background/Information

Ryan Sowa with Kimley-Horn will update the Board on their recent activities associated with the Phase 1B program.

Attachment(s)

- Phase 1B Program Update February 23, 2022
- Kimley-Horn Monthly Summary of Activities for January 2022

Board Decision(s) Needed:

None.



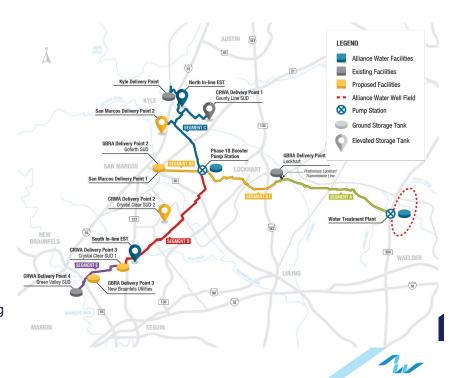


Board of Directors Meeting February 23, 2022



Ongoing Progress

- ▶ Design Milestone Status
 - Design Submittals
 - Segment E 100% submittals anticipated in March
 - Segment C 100% submittals anticipated in March
 - TWDB Reviews
 - Segment A
 - Land Acquisition Release in Preparation
 - Segment B
 - Construction Approval Submittal Under Review
 - Final Design, Procurement Funding Release in Preparation
 - Pipeline Segment B
 - NTP to Contractor: February 15th



Permitting Update

- ▶ Permitting Entities Include:
 - Cities
 - ARWA Sponsors
 - Multiple Others
 - Counties
 - · Caldwell, Guadalupe, Hays
 - Utilities
 - LCRA
 - GBRA
 - Oil & Gas Transmission
 - Franchise
 - Others
 - TxDOT
 - Union Pacific Railroad
 - Conservation Districts
 - General Land Office

Owner's Representative Roles:

- For Some Entities
 - Coordination Lead
 - Permit Submittal Assembly
- Monitor Design Consultant Progress
 - Permit Log Review
 - Anticipated Durations of Reviews
 - Owner vs Contractor Permits
- Track Expiration Dates



Pipeline Easement Acquisition Status

Pipeline Segment	Number of Parcels	(A) Appraisal/Offer in Development	(B) Negotiation (Inital Offer)	Negotiation Negotiation = (A+B+C) Appraisal /		(E) Condemnation in Process	(F) = (D+E) Possession Still Needed	(G) Purchase Agreement Signed / Possession Obtained
Α	39	0	0	0	0	0	0	39
В	51	0	0	0	0	2	2	49
D	59	0	2	0	2	20	22	37
С	73	9	18	1	28	27	55	18
E	36	0	9	0	9	20	29	7
Well Field	16	0	10	0	10	0	10	6

Total 274 118 156



Future Updates

- ► Water Quality
 - Ongoing Coordination with TCEQ
 - Awaiting Corrosion Report Feedback
 - Update in March/April Meeting







ALLIANCE REGIONAL WATER AUTHORITY ATTN: GRAHAM MOORE 1040 HIGHWAY 123 SAN MARCOS, TX 78666

Please send payments to: KIMLEY-HORN AND ASSOCIATES, INC. P.O. BOX 951640 DALLAS, TX 75395-1640

Federal Tax Id: 56-0885615

Invoice No: 068706604-1221
Invoice Date: Dec 31, 2021

Invoice Amount: \$ 211,425.27

Project No: 068706604

Project Name: ARWA PROGRAM YEAR 4

Project Manager: SOWA, RYAN

Work Order No. 4

Duration: March 2021 - Feb. 2022

Invoice Duration: Dec. 1, 2021 to Dec. 31, 2021

COST PLUS MAX

KHA Ref # 068706604.3-20423381

Description	Contract Value	Amount Billed to Date	Previous Amount Billed	Current Amount Due
PROGRAM MANAGEMENT PLAN UPDATES	32,262.00	5,670.45	5,670.45	0.00
STAKEHOLDER COORDINATION	279,683.00	221,258.11	198,565.51	22,692.60
BUDGETING	110,861.00	103,781.74	103,422.04	359.70
SCHEDULE	81,192.00	66,980.17	63,637.27	3,342.90
REPORTING	47,110.00	49,780.00	46,540.00	3,240.00
DATA MANAGEMENT	91,576.00	95,277.22	81,612.12	13,665.10
ENVIRONMENTAL MANAGEMENT	84,390.00	90,619.38	83,198.50	7,420.88
LAND ACQUISITION MANAGEMENT	509,587.00	621,074.83	515,168.84	105,905.99
TWDB MANAGEMENT	83,558.00	77,864.71	72,219.30	5,645.41
DESIGN STANDARDS	84,403.00	61,881.63	58,119.83	3,761.80
ENGINEERING DESIGN MANAGEMENT	361,276.00	340,510.75	318,817.00	21,693.75
QUALITY ASSURANCE	17,966.00	9,892.75	9,892.75	0.00
ELECTRICAL POWER PLANNING	51,073.00	24,035.00	24,035.00	0.00
PERMIT COORDINATION/TRACKING	50,094.00	44,540.70	39,274.45	5,266.25
PROCUREMENT AND CONSTRUCTION PHASE SERVICES	408,057.00	229,130.67	214,823.52	14,307.15
PROJECT ADMINISTRATION	52,870.00	32,168.39	28,303.14	3,865.25
OTHER SERVICES	78,995.00	34,556.76	34,298.26	258.50
ENVIRONMENTAL CONSTRUCTION PHASE SERVICES	260,480.00	6,199.49	6,199.49	0.00
Subtotal	2,685,433.00	2,115,222.73	1,903,797.45	211,425.27
Total COST PLUS MAX	•		•	211,425.27

Total Invoice: \$ 211,425.27

If you have questions regarding this invoice, please call Cecile Wells at (281) 612-9031.



February 16, 2022

Project Monthly Summary

January 2022 Tasks Performed:

Task 2 – Stakeholder Coordination

- Coordination and/or meetings with entities including: Caldwell County, Guadalupe County, Bluebonnet Electric Coop, TxDOT, TCEQ, and TWDB.
- o Continued weekly task coordination with Alliance Water.
- Prepared and presented Technical Committee Meeting Update.
- o Prepared and presented the Board Meeting Update.
- Prepared and presented the Project Advisory Committee Meeting Update.
- o Prepared for and held Monthly Status Meeting with Alliance Water.

• Task 3 - Budgeting

- Prepared and presented the monthly Budget Update for the Technical Committee and Board meetings.
- Continued updates to Budget Workbook to include monthly tracking of actual costs for ARWA review.

• Task 4 - Schedule

- Revised Project Deliverable Schedule based on the feedback received from ARWA, Design Consultants, and Construction Management & Inspection team.
- Integrated each project schedule into overall Program schedule. Developed and distributed the monthly Program schedule summary.

• Task 6 - Data Management

- Coordinated with Ardurra to transfer Phase 1A GIS WebMap Data and incorporated the Phase 1A Data within the Phase 1B WebMap Application.
- Ongoing maintenance of Microsoft SharePoint Online program.
- Continued updating of web-based GIS for easement acquisition process and alignment changes.

• Task 7 - Environmental Management

- Continued coordination with Program Environmental Consultant concerning the comment responses to the United States Army Corps of Engineers.
- Continued coordination with the Program Environmental Consultant regarding additional hazmat studies for Segments C and E.
- Performed coordination between Program Environmental Consultant and Land Acquisition Consultant to clarify environmental field work to be done on properties as part of right-of-entry process.
- Monthly progress meeting and ongoing coordination with Program Environmental Consultant.

- Continued coordination between Program Environmental Consultant and Design Engineers.
- o Reviewed Program Environmental invoices, schedule, and risk log.

• Task 8 - Land Acquisition Management

- o Coordinated the appraisal process for Segments C, D, E, and W parcels.
- Coordinated with Program Survey Consultant, Program Environmental Consultant, and Land Acquisition team to address questions that arise as part of the field work coordination process.
- Performed weekly QC of parcel files in SharePoint, provided comments to Land Acquisition team.
- Weekly coordination meeting with land agents to discuss status of rights-ofentry and to provide Program clarification on any questions/requests that have come from landowners.
- Reviewed Program Land Acquisition team, Program Appraiser, and Program Survey invoices.
- Continued field work coordination to notify landowners of upcoming field work by consultants.

• Task 9 - Texas Water Development Board Management

 Continued coordination with TWDB Staff to track all EFRs, environmental reports, and bid documents currently under review.

Task 10 – Design Standards

- Coordinated with Pipeline Manufacturers to review potential cost savings measures to consider.
- Revised the Pipeline Construction Standards based on Contractor recommendations for cost savings.

Task 11 – Engineering Design Management

- o Pipelines:
 - Segment A
 - Continue coordination with Design Consultant for construction phase services.
 - Segment B
 - Continued coordination with Design Consultant for procurement phase services.
 - Segment C
 - Continued coordination with Design Consultant for final design.
 - Continued coordination with Design Consultant regarding ongoing field work and pipeline alignment considerations.
 - Segment D
 - Continued coordination with Design Consultant for final design and preparation for procurement.



- Segment E
 - Continued coordination with Design Consultant for final design.
- Wellfield:
 - Continued coordination regarding the completion of construction for Wells 6-9.
- Raw Water Infrastructure:
 - Continued coordination with Design Consultant for construction phase services.
- o Water Treatment Plant:
 - Continued coordination with Design Consultant concerning Hydraulics/Surge development.
 - Continued coordination with Design Consultant for construction phase services.
- o Booster Pump Station:
 - Coordinated with Design Consultant for construction phase services.
- Inline Elevated Storage Tanks:
 - Continued coordination with Design Consultant for 90% design development.
- Other:
 - Monthly progress meetings with all Design Consultants (pipelines, water treatment plant, raw water infrastructure, wellfield, booster pump station).
 - Review invoices, schedules, and risk logs for consultants.
- Task 13 Electrical Power Planning
 - Continued coordination with ARWA and GVEC to develop agreement language for service to the well field.
 - Continued coordination with GVEC regarding electric service to the WTP and wellfield.
- Task 14 Permit Coordination/Tracking
 - Continued Permit coordination with Pipeline Consultants.
 - Continued coordination with Caldwell, Guadalupe, and Hays County TxDOT offices concerning roadway crossings.
 - Continued coordination with Caldwell, Guadalupe, and Hays Counties regarding on going permit reviews.
 - Continued General Coordination with GVEC and BBEC.
 - On-going Permit Tracking Log Updates.
- Task 15 Procurement and Construction Phase Services
 - On-going coordination with the Construction Management & Inspection team.
 - o Continued coordinated with Segment A and BPS Design Consultants during the construction phase.

Alliance Water - Phase 1B Infrastructure - Owner's Representative

- o Continued coordination with Segment B during procurement phase.
- On-going coordination with WTP and RWI Design Consultants during the construction phase.

February 2022 Projection:

- Task 2 Stakeholder Coordination
 - Coordination and/or meetings with entities including: Caldwell County, Guadalupe County, GVEC, Bluebonnet Electric Coop, TxDOT, TCEQ, and TWDB.
 - Continue weekly task coordination with Alliance Water.
 - o Prepare and present the Technical Committee Update.
 - Prepare and present Project Advisory Committee Meeting Update.
 - Prepare and present Board Meeting Update.
 - o Prepare for and hold Monthly Status Meeting with Alliance Water.

Task 3 – Budgeting

- Prepare and present the monthly Budget Update for the February Board meeting.
- Continue updates to Budget Workbook to include monthly tracking of actual costs for ARWA review.

• Task 4 – Schedule

- Prepare and present the quarterly Schedule Update for the February Board meeting.
- Revise the Project Deliverable Schedule based on the feedback received from ARWA, Design Consultants, and Construction Management & Inspection team.
- Integrate each project schedule into overall Program schedule. Develop and distribute schedule update and memorandum.

Task 6 – Data Management

- o Coordinate with ARWA and Construction Management & Inspection Team to transfer GIS WebMap to prepare for construction data collection.
- o Ongoing maintenance of Microsoft SharePoint Online program.
- Continued updating of web-based GIS for easement acquisition process and alignment changes.

• Task 7 – Environmental Management

- Review the Segment D cultural report prepared by the Environmental Consultant.
- Review the Segment E Hazmat Phase II and Technical Documents report prepared by the Environmental Consultant.
- o Continue coordination with Program Environmental Consultant concerning the comment responses to the United States Army Corps of Engineers.

- Continued coordination with the Program Environmental Consultant regarding additional hazmat studies for Segment C and E.
- Perform coordination between Program Environmental Consultant and Land Acquisition Consultant to clarify environmental field work to be done on properties as part of right-of-entry process.
- Monthly progress meeting and ongoing coordination with Program Environmental Consultant.
- Continue coordination between Program Environmental Consultant and Design Engineers.
- Review Program Environmental invoices, schedule, and risk log.

• Task 8 - Land Acquisition Management

- o Coordinate the appraisal process for Segment C, D, E, and W parcels.
- Coordinate with Program Survey Consultant, Program Environmental Consultant, and Land Acquisition team to address questions that arise as part of the field work coordination process.
- Perform weekly QC of parcel files in SharePoint, provide comments to Land Acquisition team.
- Weekly coordination meeting with land agents to discuss status of rights-ofentry and to provide Program clarification on any questions/requests that have come from landowners.
- Review Program Land Acquisition team, Program Appraiser, and Program Survey invoices.
- Continue field work coordination to notify landowners of upcoming field work by consultants.

Task 9 – Texas Water Development Board Management

 Continue coordination with TWDB Staff to track all EFRs, environmental reports, and bid documents currently under review.

• Task 10 - Design Standards

- Review and update the Construction Standards for ARWA's review respective of the Pipeline Manufacturers and Contractor recommendations for cost savings.
- Task 11 Engineering Design Management
 - o Pipelines:
 - Segment A
 - Continue coordination with Design Consultant for construction phase services.
 - Segment B
 - Continue coordination with Design Consultant for procurement phase services.
 - Segment C



- Continue coordination with Design Consultant for final design.
- Continue coordination with Design Consultant regarding ongoing field work and pipeline alignment considerations.
- Segment D
 - Continue coordination with Design Consultant for final design and preparation for procurement.
- Segment E
 - Continue coordination with Design Consultant for final design.
- Wellfield:
 - Continue coordination regarding the completion of construction of Wells 6-9.
- Raw Water Infrastructure:
 - Continued coordination with Design Consultant for construction phase services.
- o Water Treatment Plant:
 - Continue coordination with Design Consultant concerning Hydraulics/Surge development.
 - Continued coordination with Design Consultant for construction phase services.
- o Booster Pump Station:
 - Coordination with Design Consultant for construction phase services.
- Inline Elevated Storage Tanks:
 - Coordination with Design Consultant for 90% design development.
- Other:
 - Monthly progress meetings with all Design Consultants (pipelines, water treatment plant, raw water infrastructure, wellfield).
 - Review invoices, schedules, and risk logs for consultants.
- Task 13 Electrical Power Planning
 - Continue coordination with ARWA and GVEC to develop agreement language for service to the well field.
 - Continue coordination with GVEC regarding electric service to the WTP and wellfield.
- Task 14 Permit Coordination/Tracking
 - Continue Permit coordination with Pipeline consultants
 - Coordinate with Hays County concerning the Site Development Permit.
 - General Coordination with TxDOT.
 - Coordinate with Caldwell, Guadalupe, and Hays County TxDOT offices concerning roadway crossings.
 - Continue General Coordination with GVEC and BBEC.
 - On-going Permit Tracking Log Updates.



Alliance Water - Phase 1B Infrastructure - Owner's Representative

- Task 15 Procurement and Construction Phase Services
 - On-going coordination with Segment A and BPS Design Consultants during the construction phase.
 - Coordination with Segment B during procurement phase and the construction phase.
 - On-going coordination with WTP and RWI Design Consultants during the construction phase.
- Task 16 Other Services
 - o Finalize and submit the City of San Marcos Watershed Protection Plan for the Booster Pump Station Plat.

Scope Elements Added/Removed:

None at this time.

Outstanding Issues/Concerns:

None at this time.

HUB Participation:

59.9 % allotted by Contract (based on contract total fee)

54.3% to date of Billing

Design Consultant Certifications: N/A

Sub Consultant	Sub Consultant Certifications	Task Description	Contract Value (\$)	Percent Complete to Date (%)	Amount Billed to Date (\$)	Amount Paid to Date (\$)
Foster CM Croup, Inc.	DBE; AABE; MBE; SBE	Budgeting, Schedule, and Data Management	\$169,105.50	92.7%	\$156,765.83	\$151,823.83
CP&Y, an STV Company	N/A*	Program Standards, Compliance, and Project Management	\$768,448.80	66.0%	\$506,833.05	\$472,476.79
Grubb Engineering, Inc.	ESBE; SBE; WBE	Electrical Power Planning	\$43,758.00	50.2%	\$21,984.97	\$21,984.97
Spitzer and Associates, Inc.	SBE; WBE	Land Acquisition Management	\$590,327.10	88.2%	\$520,447.10	\$425,986.02
V&A Consulting Engineers, Inc.	SBE; HABE; MBE	Cathodic Protection Standards	\$21,795.30	0.0%	\$-	\$2,680.00
		Subtotal	\$1,593,434.70	75.7%	\$1,206,030.95	\$1,074,951.61

^{*}Given recent ownership changes, CP&Y, an STV Company is no longer HUB Certified.

REGULAR MEETING Alliance Regional Water Authority Board of Directors

BOARD MEMBER PACKETS

Wednesday, February 23, 2022 at 3:00 P.M. County Line SUD Offices, 8870 Camino Real, Kyle, TX 78640

H.4 Consider adoption of Resolution 2022-02-23-001 approving Work Order #10 and #11 with Blanton and Associates, Inc. for additional environmental work on the Phase 1B Program, as recommended by the Technical Committee. ~ Graham Moore, P.E., Executive Director

Background/Information

Staff and the Owner's Representative team have negotiated two different work orders with Blanton & Associates for what is expected to be the final environmental investigation work on the Phase 1B Program.

Work Order #10 deals with comments from the Corps of Engineers on previous work conducted and changes to the Waters of the US that were recently adopted by the Corps of Engineers that requires investigation of additional water crossings for Segments C, D and E. The work includes additional mobilizations for field investigation, revised reports and agency coordination and project management.

Work Order #11 deals with relocation of human remains found in Segment E investigation. Blanton recently wrapped up this field work and located two burials that must be relocated out of the easement area. The attached work order deals with the environmental aspects and reporting only. The work includes coordination with the Texas Historical Commission and with the District Court along with the actual relocation field work.

Below are some of the key facts regarding the proposals:

	Work Order #10	Work Order #11			
Firm:	Blanton & Associates, Inc.	Blanton & Associates, Inc.			
Fee:	\$381,418	\$79,915			
Work Order Type:	Hourly, Not-to-Exceed	Hourly, Not-to-Exceed			
Duration:	Thru 12/2022	Thru 12/2022			
Project Manager:	Velma Danielson	Velma Danielson			

The Environmental services currently exceeds the budgeted amount. However when all consultant services are considered (engineering, environmental and surveying) the total for consultants is expected to be approximately \$2 million below budget.

REGULAR MEETING Alliance Regional Water Authority Board of Directors

BOARD MEMBER PACKETS

Wednesday, February 23, 2022 at 3:00 P.M. County Line SUD Offices, 8870 Camino Real, Kyle, TX 78640

Attachment(s)

- Resolution 2022-02-23-001
- Blanton Work Order #10
- Blanton Work Order #11

Board Decision(s) Needed:

• Adoption of Resolution 2022-02-23-001 approving Work Orders #10 and #11 for additional environmental work on the Phase 1B Program.



RESOLUTION NO. 20220223-001

A RESOLUTION OF THE ALLIANCE REGIONAL WATER AUTHORITY BOARD OF DIRECTORS APPROVING WORK ORDER #10 AND WORK ORDER #11 BETWEEN THE AUTHORITY AND BLANTON & ASSOCIATES, INC. FOR ADDITIONAL ENVIORONMENTAL SERVICES ASSOCIATED WITH THE AUTHORITY'S PHASE 1B PROGRAM AND RELATED MATTERS, AND DECLARING AN EFFECTIVE DATE

RECITALS:

- 1. Alliance Regional Water Authority (the "Authority") entered into a master agreement with Blanton & Associates, Inc. for professional environmental services and related matters in May 2018.
- **2.** The Authority hired Kimley-Horn & Associates to serve as the Owner's Representative for the Authority's Phase 1B Program. The Owner's Representative role is to assist the Authority with development of the Phase 1B Program as a whole, including coordination with all design firms after selection through completion of the Program.
- **3.** The Authority entered into a work order with Blanton & Associates, Inc. for environmental investigations for the Authority's Phase 1B Projects in May 2018.
- **4.** Work Order #10 includes investigation of additional water crossings for Pipeline Segments C, D and E related to changes in the definition of Waters of the United States.
- **5.** Work Order #11 includes additional environmental effort associated with reinternment of two burials identified on the Segment E Pipeline project.
- **6.** The scope of services and fee for the attached work orders were negotiated by the Executive Director and the Owner's Representative on behalf of the Authority. The work order references terms and conditions in the approved Master Agreement between the Authority and Walker Partners.

BE IT RESOLVED BY THE BOARD OF DIRECTORS OF THE ALLIANCE REGIONAL WATER AUTHORITY:

- **SECTION 1.** The attached Work Order #10 for additional Environmental Investigation between the Authority and Blanton & Associates, Inc. is approved with a fee not-to-exceed \$381,418.
- **SECTION 2.** The attached Work Order #11 for additional Environmental Investigation between the Authority and Blanton & Associates, Inc. is approved with a fee not-to-exceed \$79,915.
- **SECTION 2.** The Authority's Executive Director, Graham Moore, is authorized to execute the two work orders on behalf of the Authority.

Resolution 20210825-005 Phase 1B Additional Environmental Investigation

 ${\bf SECTION~3.}~$ This Resolution shall be in full force and effect immediately upon its passage.

ADOPTED: February 23, 2022.	
	ATTEST:
Chris Betz	James Earp
Chair, Board of Directors	Secretary, Board of Directors

Work Order No. <u>010</u>

Pursuant and subject to the Master Service Agreement between the Alliance Regional Water Authority (Alliance Water) and Blanton & Associates, Inc. (Consultant), Alliance Water requests the Consultant to perform the services described below:

Work Site: <u>Hays, Caldwell and Guadalupe c</u>	<u>ounties</u>
Work to Be Performed: <u>Environmental Scop</u> <u>January 27, 2022</u> .	
Date to Commence: February 24, 2022	
Date to Complete: December 31, 2022.	
Cost Proposal to be: Time and material not	-to-exceed \$381,418.00
Other Information/Requirements: Supplements separate work order, should the need arise	
Acceptance:	
Alliance Regional Water Authority	Blanton & Associates, Inc.
By:	By:
Signature	Signature
Graham Moore, Executive Director	Don Blanton
Date:	Date:

Blanton & Associates, Inc. - Environmental Scope for Alliance Water Phase 1B Program

Pursuant to Master Services Agreement Between Alliance Regional Water Authority and Blanton & Associates, Inc., Dated May 23, 2018

Work Order No. 010 January 27, 2022

WORK ORDER NO. 010 - DEFINITION AND BACKGROUND

The Environmental Consultant (B&A) was given notice to commence work on Work Order No. 001 (dated May 17, 2018) on June 11, 2018, and work on the project has proceeded as authorized. Recently, the U.S. Army Corps of Engineers (USACE) submitted comments on the draft cultural resources survey report for Segment D and the Navigable Waters Protection Rule (NWPR) was vacated, such that it no longer applies to Segments C, D, and E. As a result of these developments, the schedules to complete environmental work on these three segments have been delayed. The Owner's Representative requested B&A prepare this Work Order No. 010 to address the following:

- 1. An additional twelve months (January December 2022) of project management efforts due to the added time to complete the project.
- 2. Additional cultural resources field work, USACE coordination, and report revisions related to parcels C009, C010, C012, D021, D023, and D024 resulting from USACE comments requesting additional shovel tests to delineate sites. This additional work was authorized by Graham Moore on July 17, 2021.
- 3. Additional work related to the NWPR being vacated. This work includes: 1) desktop review, including significant nexus research, of stream crossings and other potential waters of the U.S. (WOTUS) along Segments C, D, and E; 2) cultural resources review and surveys of impacted WOTUS crossings along Segments C and D conducted to comply with USACE comments on the draft Segment D Cultural Resources Survey Report v2 as described in item 3 above; 3) USACE and Texas Historical Commission (THC) coordination and 4) revising the Segment C, D, and E waters reports and USACE coordination letter and attachments, and Segments C and D cultural resources survey reports. This assumes no WOTUS will be impacted on Segment E.

Some of the services addressed in Work Order No, 010 have already been provided as authorized by Alliance Water on July 7th, and as reflected in notes from the August 27th, September 30th, and October 29th monthly meetings between the Owner's Rep and the environmental consultant. B&A agreed to proceed with completing this work prior to having an approved work order in place to ensure the project kept moving forward. and the Owners' Rep. Work Order No. 010 consists of this Scope of Work (SOW) document and the associated costs provided in the attached Level of Effort (LOE) spreadsheet.

In this Environmental Consultant's Work Order No. 010, SOW amendments incorporate the changes indicated below (with reference to tasks and section numbers included in previously authorized work orders) and in the attached LOE spreadsheet

Compensation for all tasks that are part of Work Order No. 010 will be on a time and materials basis.

The scope items discussed in this Work Order No. 010 are additive to the tasks (with the same identifying task numbers) listed in B&A's original and previously authorized Work Orders.

SCOPE OF WORK

1. Project Management

 B&A added 12 more months in Work Order No. 010 to the contract period (January 1, 2022, through December 31, 2022) as an estimate, in response to continuing changes to the Program's schedule. The estimated schedule changes resulted from delays associated with the USACE comments on Segment D, the NWPR being vacated, and engineering design changes for Segments C and E.

Project Management

1.1. Prepare Monthly Summary Reports/Invoicing

Assumption(s) for 1.1.:

- Invoice format and due date will be the same as required in the Project Management Plan (PMP) in effect at time of Work Order No. 010 approval and will not be revised for the duration of Work Order No. 010.
- 1.4. Schedule Development and Monthly Updates

Assumption(s) for 1.4:

- Environmental Consultant will provide the project schedule utilizing Microsoft™ Project software for the project.
- Environmental Consultant will provide schedule updates no more than twelve times for the duration of Work Order No. 010.
- Environmental Consultant will provide abbreviated schedule updates during the monthly progress meetings.

1.5. Meetings

1.5.1. Monthly Progress Meetings with Owner's Rep Env Staff

Assumption(s) for 1.5.1:

- Attendance at these meetings will be by conference call.
- 1.5.2 Internal Blanton Meetings
- 1.5.3. Additional Meetings Owner's Representative, Segment Engineers

Assumptions(s) for 1.5.3:

- Up to two meetings may be held with the Owner's Representative, Segment C, D and E Engineers by conference call, for a total of eight meetings.
- Up to four meetings may be held by conference call.

1.6. Deliverables

1.6.5. Meeting Notes and Agenda

Assumption(s) for 1.6.5:

- Owner's Representative's meeting notes and agenda template will be used.
- Environmental Consultant will be responsible for initial development, compilation of changes, and distribution of final meeting agendas and notes for each meeting.

3. Desktop Constraint Analysis

3.4. Complete desktop review of Segments D, C and E to assess impacts and jurisdictional waters on these segments due to the NWPR being vacated.

Assumption(s) for 3.4:

- Engineering files or other GIS data will be submitted in a georeferenced coordinates system to the Environmental Consultant. Throughout Phase 1B Program project development, engineering teams will coordinate with the Environmental Consultant in a timely manner regarding any changes to project design.
- 3.4.1. Constraints evaluation should include identifying and then a significant nexus analysis of stream crossings and other potential WOTUS along Segments C, D, and E. Specific work includes:
 - 3.4.1.1. Researching potential WOTUS by means of interpreting aerial photographs and topographic maps and reviewing notes, GPS data, and photos taken during previous field events;
 - 3.4.1.2. Reviewing past research and correspondence with the USACE on Segment D;
 - 3.4.1.3. Conducting a significant nexus analysis;
 - 3.4.1.4. Coordinating with the engineers for the latest alignment, easement, and bore locations to determine which mapped potential WOTUS will be temporarily or permanently impacted. Then entering that data into our GIS system; and
 - 3.4.1.5. Cultural resource review to determine which mapped potential WOTUS will require additional archeological survey based on USACE standards for said survey, i.e., additional shovel testing and mechanical trenching.

3.5. Meetings

3.5.1. Team meetings with each engineering team and Owners Representative/Program Manager/Owner to troubleshoot, determine alternatives, and evaluate alignments. Anticipate up to two (2) virtual meetings per engineering team, for a total of six meetings.

Assumption(s) for 3.5.1:

 Environmental Consultant's Project Manager and Deputy Project Manager will attend each meeting and will provide meeting notes. Additional staff will also attend, as needed

3.6. Deliverables

- 3.6.1. Summary email with B&A's assessment of potential WOTUS for each segment under *Rapanos*.
- 3.6.2. Draft kmz with potential WOTUS under Rapanos.

Assumption(s) for 3.6:

 Environmental Consultant will generate up to three summary assessments and sets of kmz's for the deliverables listed in Task 3.6.

4. Field Surveys

- 4.2. Land Acquisition Coordination
 - 4.2.1. Complete and submit Property Access Request Forms (PARFs).
 - 4.2.2. Coordinate with landowners to arrange for property access when directed by the land acquisition agent(s).
 - 4.2.3 Additional work required to verify right-of-entry (ROE) property specific requirements.

Assumption(s) for 4.2:

- The Owner's Rep will issue ROE and notice to proceed (NTP) to the Environmental Consultant in order to begin field work.
- Receipt of ROE will be provided to the Environmental Consultant prior to field surveys being conducted, as required by the Owner's Rep's Field Work Site Visit Protocol.
- B&A will submit PARFs to complete field work once B&A receives NTP for enough parcels to ensure efficient field crew deployment and confirms the most recent segment alignment.
- B&A will conduct this field work contingent upon receipt of the completed PARFs, and provided that the Program does not make changes to survey area requirements and landowners do not either revoke access or add last minute restrictions severely limiting B&A's ability to access these parcels or prohibiting B&A from conducting planned field work within the two-week PARF window. Should these issues arise, B&A will assess any impacts to planned field work to determine whether we are able to move forward as scheduled or will need to postpone field work due to circumstances beyond either the Program's or B&A's control.
- 4.3 Survey Transmission lines, Administration/Operations Facility and Booster Pump Station, delivery points:
 - 4.3.13 Conduct additional intensive archeological resources survey-phase subsurface investigations in USACE jurisdictional areas of Alliance Water's Phase 1B Program Segments C and D in response to USACE comments requiring additional shovel tests along Segment D, and USACE comments on the draft Segment D Cultural Resources Survey Report v2 regarding NWPR being vacated and additional cultural resources review and surveys of impacted WOTUS crossings along Segments C and D needed.

Assumption(s) for 4.3.13:

- USACE jurisdictional areas are defined within the area of potential effects (APE) based on applicable WOTUS under the current *Rapanos* definition. B&A followed this definition to make assessments of the jurisdictional status of mapped water features. However, only the USACE and Environmental Protection Agency (EPA) can make official jurisdictional determinations. If the USACE disagrees with B&A's WOTUS assessment, a supplemental service agreement will be requested.
- Three Seg C crossings (Concrete-lined basin/Intermittent braiding channel/Wetland adjacent to Stream-n side [extends Crossing 10], P C02f/ST C0 2 F [Porter Creek] [extends Crossing 5], and PD C01F) were not jurisdictional under NWPR but since NWPR was vacated on August 30, 2021, now are USACE jurisdictional areas not previously scoped under USACE survey requirements.
- Six Seg D crossings (OW01WD, ST 47 W D, ST D 01 Z, ST D 02 M/ STD01M, ST D 02 Z, and ST D 04 Z/ ST D 05 Z/ ST D 06 Z) were not jurisdictional under

- NWPR but since NWPR was vacated on August 30, 2021, now are USACE jurisdictional areas not previously scoped under USACE survey requirements.
- Assumes reduction in the width of the project corridor within these USACE jurisdictional areas to 98 feet or less, limiting survey to 1 transect.
- Pursuant to the April 2020 revised state terrestrial archeological survey standards for near-surface deposits, B&A proposes to excavate up to 40 total additional shovel tests within newly identified USACE jurisdictional areas of Segments C and D in response to USACE comments and the NWPR vacatur.
- Pursuant to the April 2020 revised state terrestrial archeological survey standards for deeply buried deposits, portions of the newly identified USACE jurisdictional areas of Segments C and D are characterized as deep high probability areas, which would necessitate mechanical backhoe trenching. B&A will excavate 8 total additional trenches within USACE jurisdictional areas of Segments C and D in response to USACE comments and the NWPR vacatur.
- All survey work will be conducted under existing antiquities permits for each segment.
- Survey will be non-collection of artifacts.
- Identified archeological sites within the APE will be documented via a State of Texas Archeological Site Data Form, which will be submitted to the Texas Archeological Research Laboratory and a site trinomial will be obtained.
- If NRHP-eligible archeological resources are recorded during the survey and recommended for avoidance, site boundaries within the APE would be delineated and mapped for effective project design.
- All project-related archeological materials including field notes, photographs, and a copy of the final survey report shall be curated in accordance with terms and conditions of the Texas Antiquities Permit.
- Construction monitoring, NRHP testing at any site other than Sites 41CW200 or 41CW201, Mitigation/Data Recovery, and human burial excavation are not included as part of this SOW. These services would be provided as a Supplemental Service if required.
- No more than three multiple-field-day mobilizations for combined Segments C and D will be necessary to complete the field work required to respond to USACE comments and the NWPR vacatur. These mobilizations will be conducted in the manner outlined in B&A's memorandum to the Owner's Representative dated November 5, 2019.
- All potential WOTUS on Segment E will be bored. Since no temporary or permanent impacts to WOTUS will occur on Segment E, it is assumed no further field surveys will be required.
- No biological or hazardous materials field work will be required due to the NWPR being vacated.
- This does not include any additional field work that might be requested from the USACE on subsequent reviews.

4.4. Deliverables

Deliverables changed or added to the SOW:

- 4.4.1 GIS data uploads/updates including survey corridor status shapefiles and excel file with status are required to be submitted within two weeks of field survey event.
- 4.4.3 Field Checklists (required to be submitted within two weeks of field survey event) and weekly field work emails.

- 6. Environmental Documents and Permitting Requirements (Transmission lines, Administration/ Operations Facility and Booster Pump Station)
 - 6.11 Revisions needed for Segment C and D cultural resources reports after additional intensive archeological survey-phase subsurface investigations in USACE jurisdictional areas of Alliance Water's Phase 1B Program Segments C, and D in response to USACE comments requiring additional shovel tests along Segment D, and USACE comments on the draft Segment D Cultural Resources Survey Report v2 regarding the NWPR being vacated and resulting in additional cultural resources review and surveys of impacted WOTUS crossings along Segments C and D (Note: This sub-task does not include efforts related to Task 18 (Phase II testing along Segment D, below.)

6.11.1 USACE and THC coordination

6.11.1.1. Meetings

Meetings with THC and USACE to discuss comments and determine next steps for waters and cultural resources, and follow-up activities

Assumption(s) for 6.11.1.1:

 Meetings will be via telephone conference. No more than two 1-hour meetings per agency.

6.11.1.2. Deliverables

6.11.1.2.1. Meeting agendas

6.11.1.2.2. Meeting notes or email summaries

- 6.12 Segment C, D, and E Waters Reports Revised for USACE Clearance
 - 6.12.1. Revise the draft jurisdictional delineation reports for water resources including anticipated jurisdiction and impacts for project. This task also includes the USACE coordination letter and required attachments.

Assumption(s) for 6.12.1:

- B&A is using the final version of Rapanos, which redefines WOTUS and became
 effective when the NWPR was vacated on August 30, 2021, to assess the
 jurisdictional status of mapped water features. Only the USACE and EPA can
 make official jurisdictional determinations. If the USACE disagrees with B&A's
 assessment, a supplemental service agreement will be requested.
- Should a Preconstruction Notification (PCN) be required for Segments C E, it
 will be considered a supplemental service.
- For the draft and final reports, Environmental Consultant will provide one PDF copy in searchable Adobe Acrobat[™] (.pdf) format, unless another format is specified.

6.12.2. Meetings

6.12.2.1. If necessary, meetings with the USACE's Project Manager will be held to determine and coordinate on next steps and to discuss questions/comments.

Assumption(s) for 6.12.2:

- Meetings will be via telephone conference. No more than ten meetings will be held with the USACE for one-hour each.
- 6.12.2.2. Deliverables

6.12.2.2.1. Meeting agendas

6.12.2.2.2. Meeting notes or email summaries

6.12.3 Deliverables

- 6.12.3.1 Revised Draft Jurisdictional Determination Reports with anticipated permitting requirements
- 6.12.3.2 Final Jurisdictional Determination Reports with anticipated permitting requirements

Assumption(s) for 6.12.3:

- This assumes no WOTUS will be impacted on Segment E and the USACE would only be asked for a no permit needed letter.
- 6.13. Segment C and D Revised Archeological Survey SOWs and Reports– Revised THC and USACE Compliance and Clearance
 - 6.13.1 Meetings
 - 6.13.1.1 If necessary, meetings with USACE to determine and coordinate on next steps due to areas to be re-surveyed. Meetings with the THC may also be necessary.

Assumption(s) for 6.13.1.1:

- Meetings will be via telephone conference. No more than four meetings with USACE for one-hour each, and no more than four meetings with the THC for one hour each.
- 6.13.1.2. Deliverables
 - 6.13.1.2.1. Meeting agendas
 - 6.13.1.2.2. Meeting notes or email summaries
- 6.13.2 Prepared revised cultural resources survey scopes of work and submit for approval by the THC and USACE.
 - 6.13.2.1 Deliverables
 - 6.13.2.1.1 Draft Revised Intensive Cultural Resources Survey SOW
 - 6.13.2.2.2 Final Intensive Cultural Resources Survey SOW

Assumption(s) for 6.13.2.:

- This assumes all fieldwork will be conducted under existing antiquities permits for survey of Segments C and D.
- This assumes a revised USACE jurisdictional areas SOW will be required for further cultural survey of these areas along Segment C.
- This assumes no revision of a Segment D USACE SOW per meeting with Jimmy Barrera (USACE) November 4, 2021.
- There will be only two rounds of comments from, and coordination with, USACE to complete the Segment C cultural resources survey scope of work. Additional rounds of comments, requests for additional field work, and responses will require an additional scope and fee.
- For the draft and final scopes of work, Environmental Consultant will provide one PDF copy in searchable Adobe Acrobat™ (.pdf) format, unless another format is specified. Each electronic deliverable will be a single, searchable .pdf file that mirrors the layout and appearance of the hard copy

6.13.3 Prepare revised reports documenting field investigations, findings, and recommendations on Segment C and D. Shall be suitable for THC review and approval, and for USACE review and approval for jurisdictional areas.

Assumption(s) for 6.13.3:

All efforts to avoid effects to identified cultural resources should be made.

6.13.4 Deliverables

- 6.13.4.1 Draft Revised Intensive Cultural Resources Survey Reports
- 6.13.4.2 Final Intensive Cultural Resources Survey Reports

Assumption(s) for 6.13.4.2:

- There will only two rounds of comments from, and coordination with, USACE to complete the cultural resources survey reports. Additional rounds of comments and responses will require an additional scope and fee.
- The draft cultural resources survey report will only be revised twice, with the final report being generated as the revised report. Additional drafts will require an additional scope and fee.
- For the draft and final reports, Environmental Consultant will provide one PDF copy in searchable Adobe Acrobat™ (.pdf) format, unless another format is specified. Each electronic deliverable will be a single, searchable .pdf file that mirrors the layout and appearance of the hard copy.

7. Supplemental Services

- 7.6 Re-Alignment and Limited Alignment/Parcel Field Work Requests from Owner's Representative
 - 7.6.2 Field Work B&A anticipates that additional field surveys based upon re-alignments to segments received from design engineers based upon adjustments needed regarding potential WOTUS stream crossings and/or environmental reports are/were submitted to agencies for review and approval.
 - No more than ten re-alignment field survey mobilizations for ten individual parcels (i.e., beyond the protocol outlined in B&A's memorandum dated November 5, 2019) will be requested by the Owner's Representative. Additional requests beyond this number may result in an amendment to this Work Order scope and fee.
 - 7.6.3 Reporting B&A anticipates that revisions to the environmental reports may be requested after the draft environmental reports have been submitted to the Owner's Representative for review and comment. No more than eight report revisions as follows are included in this SOW and fee: one each for the Segment C, D and E waters reports; one each for the Segment C, D and E cultural resources reports; and one each for the Segment C and E protected species reports. Additional revisions beyond this number may result in an amendment to this Work Order scope and fee.

Assumption(s) for 7.6:

- The Owner's Representative and/or the design engineers will continue to request B&A conduct field surveys on certain areas for the purposes of evaluating pipeline realignment parcels that will add field mobilizations scope and costs beyond those included in B&A's Task 7.6.1.
- B&A assumes these requests will continue for the duration of the project in the same manner that they occurred in 2021 related to B&A's work on Task 7.6.1. As such, any

- requests for re-alignment on parcels where B&A has already completed field work and/or environmental reports were submitted.
- Additional re-alignment field work beyond that required for these ten re-alignment parcels noted in this work order will be included in a subsequent scope and fee.



WORK ORDER NO. 008 FOR PROFESSIONAL SERVICES TASK 7 – SUPPLEMENTAL SERVICES RE-ALIGNMENT AND LIMITED ALIGNMENT/PARCEL FIELD WORK & REPORTING SEGMENTS C, D, E ALLIANCE WATER PROPOSED TRANSMISSION PIPELINE

This Work Order constitutes authorization by **Blanton & Associates, Inc.** (otherwise referred to as Client or B&A) for **Braun Intertec Corporation** (Braun Intertec, otherwise referred to as Consultant) to provide additional environmental services for the proposed Alliance Regional Water Authority (Alliance Water) water transmission pipeline in central Texas. Braun Intertec has provided desktop constraints reviews, field reconnaissance for hazardous materials, and environmental reports related to the five proposed pipeline segments (Segments A through E) of the Alliance Water Phase 1B Program (Program).

As described below, the proposed scope of work includes additional field surveys for hazardous materials on up to 10 individual parcels within Segment C, D, and E due to anticipated re-alignments and additional environmental reporting associated with those re-alignments.

Scope of Services

1. Field Work (Task 7.6.2).

Braun Intertec anticipates that up to 10 mobilizations may be requested to conduct field surveys for hazardous materials on up to 10 individual parcels based on re-alignments to Segments C, D, and/or E received from Client. Braun Intertec field staff will observe for the presence of hazardous materials in the area of the re-alignment by foot or by vehicle. Braun Intertec will work with Client representatives to gain access to the parcels associated with the pipeline re-alignments but will not be responsible for obtaining landowner right of entry agreements or Property Access Request Forms (PARFs) for the proposed field surveys. The field survey for each parcel is assumed to take two Braun Intertec staff 4 to 8 hours to complete. Property access notifications as required by the PARF and travel are included in the estimated costs. Braun Intertec will provide Client with a field checklist, preliminary summary of findings, and GIS deliverable following completion of each mobilization.

2. Reporting (Task 7.6.3).

Braun Intertec anticipates that revisions to Hazardous Materials Assessment Reports may be requested after the draft reports have been submitted to the Client for review and comment. This task allows for the preparation of revised Hazardous Materials Assessment Reports (Revised Report) due to anticipated realignments on up to 10 parcels occurring after original reports have been prepared and submitted to B&A. One Revised Report for each segment (C, D, E) is anticipated. Braun Intertec will coordinate with the Client regarding due dates for the revised environmental reports associated with anticipated pipeline re-alignments.

Assumptions

Additional re-alignment field work beyond that required for these 10 re-alignment parcels noted in this Work Order will be included in a subsequent scope and fee.

Blanton & Associates, Inc. January 27, 2022 Page 2

Payment

The fees for these professional consulting services will be billed on a time and material basis for **\$29,951** based on the attached worksheets and fee schedule. Braun Intertec will not exceed \$29,951 in billings without prior written consent from Client. Work shall be performed under the terms and conditions set forth in the Assignment, Assumption, and Consent effective September 30, 2018.

Schedule

Braun Intertec will proceed with the proposed tasks upon receipt of written authorization and re-alignment information from the Client.

BILLING INFORMATION:	REMIT PAYMENT TO:
BLANTON & ASSOCIATES, INC.	BRAUN INTERTEC CORPORATION
5 Lakeway Centre Court, Suite 200	Lockbox 446035
Austin, Texas 78734	PO Box 64384
	St Paul, MN 55164-0384
Don Blanton	PIC: Diana Rader, P.G.
(512) 264-1095	PCC: Trudy Hasan, P.G.
dblanton@blantonassociates.com	thasan@braunintertec.com
	512-721-0005 Office
Authorized:	Accepted:
SIGNATURE:	SIGNATURE:
DATE:	DATE:

Braun Intertec			
		Work Order #008 Summary	
Pipeline Consultant - Work Order #008	Braun Intertec	\$	29,951
1/27/2022	Sub-contractor		
Detailed Overall Env Consultant Cost Breakdown	Total W.O. #008	\$	29,951

Task												T. (1) E		
	Project Role	Principal Se Consultant II Cons	ior Project Itant II Consultant III	Project Consultant I	Staff Consultant	GIS Technician	Staff Consultant	Staff Consultant I	Project Coordinator	Total Hours	Total Labor Effort	Effort	Total Effort	Assumptions
	Hourly Bill Rate	\$250.00 \$20	2.00 \$165.00	\$142.00	\$125.00	\$118.00	\$105.00	\$95.00	\$93.00					
				Basi	c Services									
7	Task 7 - Supplemental Services									222	28,726	1,225	29,951	
7.6	Re-Alignment and Limited Alignment/Parcel Field Work													
7.6.2	Field Work	5	40		40	10	80			175	22,430	1,225	23,655	See Discussion/Assumptions - Task 7.6.2 Scope of Work
7.6.3	Reporting	3	12		10	6	10		6	47	6,296		6,296	See Discussion/Assumptions - Task 7.6.3 Scope of Work
										222	28,726	1,225	29,951	

OTHER DIRECT COST	•			TOTAL
<u>Item</u>	<u>Per Unit</u>	TASK 7	TASK 7	COST
Lodging	\$ 120.00		\$ -	\$ -
ATV	\$ 75.00		\$ -	\$ -
GPS	\$ 100.00		\$ -	\$ -
Camera	\$ 45.00		\$ -	\$ -
Vehicle Mileage	\$ 0.585		\$ -	\$ -
Vehicle Rental	\$ 100.00	10	\$ 1,000.00	\$ 1,000.00
4X4 Vehicle Rental	\$ 125.00		\$ -	\$ -
Vehicle Fuel	\$ 30.00		\$ -	\$ -
Per Diem - Meals	\$ 45.00	5	\$ 225.00	\$ 225.00
Misc. (Tolls, Parking)	\$ 10.00		\$ -	\$ -
Field Supplies	\$ 20.00		\$ -	\$ -
Facility Rental	\$ 800.00		\$ -	\$ -
Backhoe Rental	\$ 1,000.00		\$ -	\$ -
Trackhoe Rental	\$ 2,000.00		\$ -	\$ -
Overnight Mail	\$ 40.00		\$ -	\$ -
Mail	\$ 0.50		\$ -	\$ -
Color Plot (sq.ft.)	\$ 1.50		\$ -	\$ -
Color Copies (per 8.5x11 sheet)	\$ 0.35		\$ -	\$ -
Color Copies (per 11x17 sheet)	\$ 0.50		\$ -	\$ -
Copies (per 8.5x11 sheet)	\$ 0.10		\$ -	\$ -
Copies (per 11x17 sheet)	\$ 0.10		\$ -	\$ -
Radiocarbon Dating Samples	\$ 600.00		\$ -	\$ -
Curation of Archeological Materials	\$ 230.00		\$ -	\$ -
Newspaper Ads	\$ 1,200.00		\$ -	\$ -
Archeological Site Form TARL Processing Fee	\$ 96.00		\$ -	\$ -
TOTAL OTHER DIRECT COST			\$ 1,225.00	\$ 1,225.00

	Alliance Water												1	Work Order #10 Summary											
	I.	Pipalina Cansalatari Work Order #16 1/27/2022													Blanton	\$ 381,417									
							Detailed		1/27/2022 Consultant Cost Bre	akdawa														Sub-contractor Total W.O. #10	\$ 381,418
							Detailed	Overall Env	Consultant Cost Bre	akdown													Total W.O. #10	\$ 381,418	
Task																			Total B&A Labor	Total B&A		W&M Expense			
	Project Role		DPM ENV Professions	al Endangered Endangered Species Lead Species Scienti			LEACE Permit L Lead			CR Lead CR Scientist II		WDB Lead Scientist I	Env Tech II - Waters	Env Tech I - Waters		S Analyst GS			Total B&A Labor Effort	Expense Effort	W&M Labor	W&M Expense Effort	Total Sub Effort	Total Effort	Assumptions
	Hourly Bill Rate	\$225.00 \$180.00	\$170.00 \$150.00	\$160.00 \$130.00	\$110.00	\$90.00	\$160.00	\$130.00	\$110.00 \$90.00	\$160.00 \$130.00 Basic Services	\$120.00	\$160.00 \$120.00	\$110.00	\$90.00	\$140.00 \$	110.00	\$95.00 \$70.0		<u> </u>		<u> </u>		<u> </u>	<u> </u>	
1	Task 1 - Prolect Management Prepare Monthly Summary Reports / Invoicing (12 additional)																	638	86,000					86,000	
1.1	months)	24				24												71	11,240					11,240	
1.4	Schedule Development & Monthly Updates (12 additional months)	16	12			84												112	12,480					12,480	See Discussion/Assumptions - Task 1.4 Scope of Work
1.5.1	Monthly Progress Meetings (12 additional months)	18	18			18												5-	7,920					7,920	See Discussion/Assumptions - Task 1.5.1 Scope of Work
1.5.2	Internal Blanton Meetings (12 additional months)	12				48 16				20 8						32		192	26,360 8,160					26,360	See Discussion/Assumptions - Task 1.5.2 Scope of Work
1.6	Additional Mtgs - Owners Rep / Segment Engineers Deliverables		10			16													8,100						See Discussion/Assumptions - Task 1.5.3 Scope of Work
1.6.5	Meeting Notes and Agendas	36	36	1		60	8			8								148	19,840					19,840	See Discussion/Assumptions - Task 1.6.5 Scope of Work
3.4	Task 3 - Desktop Constraints Analysis Complete desktop review of Seq D. C and E																	181	25,780			-		25,780	See Discussion/Assumptions - Task 3.4 Scope of Work
3.4.1	Constraints evaluation																								See Discussion Pessen page 3 - 1 Balk 5-4 Geope 5 Work
3.4.1.1	Researching potential WOTUS	1	4				4						10			4		23	3,040					3,040	See Discussion/Assumptions - Task 3.4.1.1 Scope of Work
3.4.1.2	Reviewing past research and correspondence	1	4										10					15	1,960					1,960	See Discussion/Assumptions - Task 3.4.1.2 Scope of Work
3.4.1.3	Conducting a significant nexus analysis	1	4				4						20			4		33	4,140					4,140	See Discussion/Assumptions - Task 3.4.1.3 Scope of Work
3.4.1.4	Coordination with engineers	1	6										2			6		16	2,080					2,080	See Discussion/Assumptions - Task 3.4.1.4 Scope of Work
3.4.1.5	Cultural resource review	1 1	4	1 1						24						4		3:	5,140					5,140	See Discussion/Assumptions - Task 3.4.1.5 Scope of Work
3.5	Meetings																								'
3.5.1	Team meetings with each eng team & CPY	9	12				4											21	4,300					4,300	See Discussion/Assumptions - Task 3.5.1 Scope of Work
3.6.1	Deliverables Summary email with B&A's assessment		6							6			3					-	2.850					2.850	See Discussion/Assumptions - Task 3.6.1 Scope of Work
3.6.2	Draft kmz w potential WOTUS			1 1] [,			10		18	2,000	-	1		1		See Discussion/Assumptions - Task 3.6.1 Scope of Work See Discussion/Assumptions - Task 3.6.2 Scope of Work
4	Draft kmz w potential WOTUS Task 4 - Field surveys		3		1											10		594	74,360	5,497				79,857	see ыницианип/Assumptions - такк з.е.∠ Scope of Work
4.2	Land Acquisition Coordination																								
4.2.1	Complete and submit property access request forms		6	-		20										16		43	4,580 3.180					4,580	
42.2	Coordinate with landowners		6			24												30	-1.00						See Discussion/Assumptions - Task 4.2.2 Scope of Work
4.2.3	Additional work required to verify ROE Survey Transmission lines, Administration/Operations Facility and		6			30												36	3,720					3,720	See Discussion/Assumptions - Task 4.2.3 Scope of Work
4.3	Survey Transmission lines, Administration/Operations Facility and Booster Pumo Station, delivery points																								
4.3.13	Conduct additional intensive archeological resources survey									80 208	106					16		4 414	54,600	5,497				60,097	See Discussion/Assumptions - Task 4.3.13 Scope of Work
4.4	Deliverables																								
4.4.1	GIS data uploads / updates	2				16										24		41	5,460						See Discussion/Assumptions - Task 4.4.1 Scope of Work
4.4.3	Field Checklists	2	6			16												24	2,820						See Discussion/Assumptions - Task 4.4.3 Scope of Work
6	Task 6 - Environmental Documents and Permitting Requirements Revisions needed for Segment C & D CR reports																	709	101,510	-		-	-	101,510	
6.1411	Revisions needed for Segment C & D CR reports USACE and THC coordination																								
6.11.1.1	Meetings	2	2							2									1,020					1,020	See Discussion/Assumptions - Task 6.11.1.1 Scope of Work
6.11.1.2.1	Deliverables Meeting agendas		3							6									1,470					1,470	See Discussion/Assumptions - Task 6.11.1.2.1 Scope of
6.11.1.2.1					-					6								,	1,470					1,470	Work
6.11.1.2.2	Meeting notes or email summaries Segment C. D and E Waters Reports		3							6								9	1,470					1,470	Work
6.12.1	Revise the draft jurisdictional delineation reports		24										78		3	30		135	16,380					16,380	See Discussion/Assumptions - Task 6.12.1 Scope of Work
6.12.2	Meetings		10																						
6.12.2.1 6.12.2.2	Meetings w/ the USACE's project manager Deliverables	10	10				4						10					34	5,240					5,240	See Discussion/Assumptions - Task 6.12.2.1 Scope of Work
6.12.2.2.1	Meeting agendas		5										5					11	1,580					1,580	
6.12.2.2.2	Meeting notes or email summaries	1	5										5					11	1,580						See Discussion/Assumptions - Task 6.12.2.2.2 Scope of
6.12.3	Deliverables																								Work
6.12.3.1	Revised draft jurisdictional determination reports	6			1		4						21		3	10		9 7	9,060						See Discussion/Assumptions - Task 6.12.3.1 Scope of Work
6.12.3.2	Final jurisdictional delineation reports	3	12 6										24		3	9		6 6	7,950					7,950	See Discussion/Assumptions - Task 6.12.3.2 Scope of Work
6.13	Segment C and D Revised Archeological Survey SOWs and reports																								
6.13.1	Meetings When with the USACT	4					T	- 1		8									4.020					4.020	Co-Discosion Toda 224 Co. Co.
6.13.1.1	If necessary, meetings w/ the USACE Deliverables	-	8		6													21	4,020					4,020	
6.13.1.2.1	Meeting agendas		10							20								30	4,900					4,900	See Discussion/Assumptions - Task 6.13.1.2.1 Scope of Work
6.13.1.2.2	Meeting notes or email summaries		10							20								30	4,900					4,900	Work See Discussion/Assumptions - Task 6.13.1.2.2 Scope of Work
6.13.2 6.13.2.1	Prepare Revised cultural resources survey scopes of work Deliverables																								
6.13.2.1.1	Draft Revised Intensive Cultural Resources Survey SOW		2 4		1					8								14	2,220		1		1	2,220	
6.13.2.2.2	Final Intensive Cultural Resources Survey SOW		1 1							2									640					640	Work See Discussion/Assumptions - Task 6.13.2.2.2 Scope of
6.13.3	Prepare revised reports documenting field investigations		4 8		1	1				100	1			- 1		12		2 128	19,340	1					Work See Discussion/Assumptions - Task 6.13.3 Scope of Work
6.13.4	Deliverables																	120						,.40	THERE O. TO D. GOODE OF WORK
6.13.4.1	Draft Revised Intensive Cultural Resources Survey Reports		4 6							32						4		2 41	7,280	l	1		1	7,280	See Discussion/Assumptions - Task 6.13.4.1 Scope of Work
6.13.4.2	Final Intensive Cultural Resources Survey Reports and Curation		1 2							64 9						4		2 83	12,460	1					See Discussion/Assumptions - Task 6.13.4.2 Scope of Work
7.6	Task 7 - Supplemental Services Re-Alanment and Limited Alanment/Parcel Field Work																	435	55,070	3,250	28,726	1,225	29,951	88,271	
7.6.2	Re-Aldnment and Limited Aldnmenti Parcel Field Work Field Work					20				44 120	90					40		20 334	41,040	3,250	22,430	1,225	23,655	67,945	See Discussion/Assumptions - Task 7.6.2 Scope of Work
7.6.3	Reporting		2 6		10	20				60						2		1 10	14,030		6,296		6,296	20,326	See Discussion/Assumptions - Task 7.6.3 Scope of Work
			1 1		1			1								<u> </u>		2,557	1	8,747		1,225	1	1	
Ь																		4,007	342,720	0,747	20,726	1,225	40,951	301,418	l

OTHER DIRECT COST				# OF UNITS		COST BY TASK											
Item	Per Unit	TASK 1	TASK 3	TASK 4	TASK 6	TASK 7		TASK 1		TASK 3	TASK 4	TASK 6		TASK 7	TASK 7	1	COST
Lodging \$	120.00			3			\$	-	\$	-	\$ 360.00	\$ -	\$	- \$	-	\$	360.00
ATV \$	75.00						\$	-	\$	-	\$ -	\$ -	\$	- \$	-	\$	-
GPS \$	100.00			10		21	\$	-	\$	-	\$ 1,000.00	\$ -	\$	2,100.00	-	\$	3,100.00
Camera \$	45.00						\$	-	\$	-	\$ -	\$ -	\$	- \$	-	\$	-
Vehicle Mileage \$	0.58						\$	-	\$	-	\$ -	\$ -	\$	- \$	-	\$	-
Vehicle Rental \$	100.00			6		10	\$	-	\$	-	\$ 600.00	\$ -	\$	1,000.00 \$	-	\$	1,600.00
4X4 Vehicle Rental \$	125.00						\$	-	\$	-	\$ -	\$ -	\$	- \$	-	\$	-
Vehicle Fuel \$	30.00			7		5	\$	-	\$	-	\$ 210.00	\$ -	\$	150.00 \$	-	\$	360.00
Per Diem - Meals \$	45.00			3			\$	-	\$	-	\$ 135.00	\$ -	\$	- \$	-	\$	135.00
Misc. (Tolls, Parking) \$	10.00						\$	-	\$	-	\$ -	\$ -	\$	- \$	-	\$	-
Field Supplies \$	20.00						\$	-	\$	-	\$ -	\$ -	\$	- \$	-	\$	-
Facility Rental \$	800.00						\$	-	\$	-	\$ -	\$ -	\$	- \$	-	\$	-
Backhoe Rental \$	1,000.00			3			\$	-	\$	-	\$ 3,000.00	\$ -	\$	- \$	-	\$	3,000.00
Trackhoe Rental \$	2,000.00						\$	-	\$	-	\$ -	\$ -	\$	- \$	-	\$	-
Overnight Mail \$	40.00						\$	-	\$	-	\$ -	\$ -	\$	- \$	-	\$	-
Mail \$	0.50						\$		\$	-	\$ -	\$ -	\$	- \$	-	\$	-
Color Plot (sq.ft.) \$	1.50						\$	-	\$	-	\$ -	\$ -	\$	- \$	-	\$	-
Color Copies (per 8.5x11 sheet) \$	0.35						\$	-	\$	-	\$ -	\$ -	\$	- \$	-	\$	-
Color Copies (per 11x17 sheet) \$	0.50						\$		\$	-	\$ -	\$ -	\$	- \$	-	\$	-
Copies (per 8.5x11 sheet) \$	0.10						\$	-	\$	-	\$ -	\$ -	\$	- \$	-	\$	-
Copies (per 11x17 sheet) \$	0.10						\$		\$	-	\$ -	\$ -	\$	- \$		\$	-
Radiocarbon Dating Samples \$	600.00						\$		\$	-	\$ -	\$ -	\$	- \$	-	\$	-
Curation of Archeological Materials \$	230.00						\$	-	\$	-	\$ -	\$ -	\$	- 9	-	\$	-
Newspaper Ads \$							\$		\$	-	\$ -	\$ -	\$	- 9		\$	-
Archeological Site Form TARL Processing Fee \$	96.00			2			\$	-	\$	-	\$ 192.00	\$ -	\$	- \$	-	\$	192.00
TOTAL OTHER DIRECT COST							\$	-	\$	-	\$ 5,497.00	\$ -	\$	3,250.00	-	\$	8,747.00

Work Order No. <u>011</u>

Pursuant and subject to the Master Service Agreement between the Alliance Regional Water Authority (Alliance Water) and Blanton & Associates, Inc. (Consultant), Alliance Water requests the Consultant to perform the services described below:

work Site: <u>Guadaiupe County</u>									
Work to Be Performed: Environmental Scope January 27, 2022.	·								
Date to Commence: February 24, 2022									
Date to Complete: December 31, 2022.									
Cost Proposal to be: Time and material not-t	to-exceed \$79,915.00								
Other Information/Requirements: <u>Supplemental services must be authorized by a separate work order, should the need arise.</u>									
Acceptance:									
Alliance Regional Water Authority	Blanton & Associates, Inc.								
By:	By:								
Signature	Signature								
Graham Moore, Executive Director	Don Blanton								
Date:	Date:								

Environmental Consulting Planning Project Management

Blanton & Associates, Inc. - Environmental Scope for Alliance Water Phase 1B Program

Pursuant to Master Services Agreement Between Alliance Regional Water Authority and Blanton & Associates, Inc., Dated May 23, 2018

Work Order No. 011 January 27, 2022

WORK ORDER NO. 011 - DEFINITION AND BACKGROUND

The Environmental Consultant (B&A) was given notice to commence work on Work Order No. 001 (dated May 17, 2018) on June 11, 2018, and work on the project has proceeded as authorized. In response to B&A's identification of two human burials on Parcel E010 through work authorized under Work Order No. 009, the Owner's Representative requested B&A prepare this Work Order No. 011 to address the relocation of this partial cemetery.

Work Order No. 011 consists of this Scope of Work (SOW) document and the associated costs provided in the attached Level of Effort (LOE) spreadsheet. In this Environmental Consultant's Work Order No. 011, SOW amendments incorporate the changes indicated below (with reference to tasks and section numbers included in previously authorized work orders) and in the attached LOE spreadsheet.

Compensation for all tasks that are part of Work Order No. 011 will be on a time and materials basis. The scope items discussed in this Work Order No. 011 are additive to the tasks (with the same identifying task numbers) listed in B&A's original and previously authorized Work Orders.

SCOPE OF WORK

- 19. Parcel E010 Cemetery Relocation
 - 19.1. Project Management

Assumption(s) for 19.1:

 This SOW presumes that the work on this task will be completed within the time period of January 27, 2022, through December 31, 2022. Therefore, general project management services related to this task are included in Work Order No. 010. If this task extends beyond December 31, 2022, that extended timeframe would result in additional project management services scope and fee. Specific project management activities related to this new task are included in the SOW below.

19.1.1. Meetings

19.1.1.1. Monthly Progress Meetings with Owner's Rep Env Staff

Assumption(s) for 19.1.1.1:

- Attendance at these meetings will be by conference call.
- An item related to Task 19 will be added to the monthly progress meeting agenda for the duration of work on Task 19.

19.1.1.2. Additional Meetings – Owner's Representative, Segment E Engineers

Assumptions(s) for 19.1.1.2:

• Up to two meetings may be held with the Owner's Representative or the Program by conference call.

19.1.1.3. Internal Environmental Consultant Team Meetings

Assumptions(s) for 19.1.1.3:

Up to four meetings may be held by conference call.

19.1.1.4 Additional Meetings – Alliance Legal Counsel

Assumption(s) for 19.1.1.4:

 B&A assumes two meetings (conference calls) with Alliance's legal counsel to provide information.

19.1.1.5 Additional Meetings -- THC

Assumption(s) for 19.1.1.5:

B&A assumes two meetings (conference calls) with THC to provide information.

19.1.2. Deliverables

19.1.2.1 Meeting Agenda and Notes/Summary

Assumption(s) for 19.1.2.1:

- Owner's Representative's meeting notes template will be used.
- Environmental Consultant will be responsible for initial development, compilation of changes, and distribution of final meeting notes for each meeting.

19.2 District Court Coordination

19.2.1 Alliance legal counsel coordination

Assumption(s) for 19.2.1:

- B&A will not be coordinating filing of a Petition to Abate/Cemetery Dedication Removal with the district court.
- If requested, B&A will provide information and advisory coordination to Alliance's legal counsel.
- Up to two meetings may be held by conference call.
- Up to two responses to emailed requests for information.

19.2.2 THC Coordination

Assumption(s) for 19.2.2:

- If requested, B&A will provide information to the THC in conjunction with the filing of a Petition to Abate/Cemetery Dedication Removal with the district court.
- Up to two responses to emailed requests for information.

19.2.3 Disinterment Permits

Assumption(s) for 19.2.3:

 After the Petition to Abate/Cemetery Dedication Removal is granted by the district court, B&A will file two disinterment permit applications with the State Registrar.

19.3 Texas Antiquities Permit

19.3.1 Texas Antiquities Permit and SOW

Assumption(s) for 19.3.1:

 As this project is subject to compliance with the Texas Antiquities Code, an antiquities permit for burial exhumation as defined in 13 TAC 26.15 will be required.

19.3.2 THC Coordination

Assumption(s) for 19.3.2:

- If requested, B&A will provide information to the THC in conjunction with review of the antiquities permit and SOW.
- Up to two responses to emailed requests for information.

19.3.3 Deliverables

- 19.3.3.1 Draft TAC Permit and SOW
- 19.3.3.2 Final TAC Permit and SOW

19.4. Cemetery Relocation Field Work

- 19.4.1. Land Acquisition Coordination
 - 19.4.1.1. Complete and submit PARF.
 - 19.4.1.2. Coordinate with landowner to arrange for property access when directed by the land acquisition agent(s).
 - 19.4.1.3. Additional work required to verify ROE property specific requirements.

Assumption(s) for 19.4.1:

- The Owner's Rep will issue ROE and NTP to the Environmental Consultant in order to begin field work.
- Receipt of ROE will be provided to the Environmental Consultant prior to field work being conducted, as required by the Owner's Rep's Field Work Site Visit Protocol.
- B&A will submit PARF to complete field work once B&A receives NTP to ensure efficient field crew deployment.
- B&A will conduct this field work contingent upon receipt of the completed PARF, and provided that landowner does not either revoke access or add last minute restrictions severely limiting B&A's ability to access the parcel or prohibiting B&A from conducting planned field work within the two-week PARF window. Should these issues arise, B&A will assess any impacts to planned field work to determine whether we are able to move forward as scheduled or will need to postpone field work due to circumstances beyond either the Program's or B&A's control.

19.4.2. Cemetery Relocation

Assumption(s) for 19.4.2:

- All cemetery relocation field work will be conducted under a new antiquities
 permit
- Assumes mechanical scraping, hand excavation of two unmarked human graves, and mechanical backfilling will be required.

- The services of a physical anthropologist may be required per 13 TAC 22.5 (c)(2). If needed, these services will be subcontracted.
- B&A will maintain temporary custody of the human remains and associated funerary objects for secure storage at B&A's archeology laboratory in Austin, Texas.
- Relocation/reburial will be carried out by a licensed professional funeral director
 or other appropriate designee per Texas law. B&A will coordinate only custodial
 handover of the human remains and associated funerary objects to said
 individual for purposes of reinterment.
- B&A will attend the reburial to document the event to be included in the cemetery relocation report.
- Construction monitoring is not included as part of this SOW. These services would be provided as a Supplemental Service if required.

19.4.3. Deliverables

19.4.3.1 Field Checklists (required to be submitted within two weeks of field survey event) and weekly field work email.

19.5 Cemetery Relocation Reporting

19.5.1. Prepare cemetery relocation report documenting field investigations, findings, and documentation of reburial. Shall be suitable for THC review and approval.

Assumption(s) for 19.5.1:

- Exhumations and relocations will be documented in report for submittal to the THC per antiquities permit terms and conditions.
- Per 13 TAC 22, casket morphology, casket hardware, and any funerary objects will be examined and identified in the report.
- Findings of the physical anthropologist will be included in the draft report.
- All project-related archeological materials including field notes, photographs, and a copy of the final cemetery relocation report shall be curated in accordance with terms and conditions of the Texas Antiquities Permit.
- A site revisit form for the cemetery will be submitted to Texas Archeological Research Laboratory in accordance with state protocols.

19.5.2. Deliverables

Assumption(s) for 19.5.2:

- There will only be one round of comments from, and coordination with, the THC to complete the report. Additional rounds of comments and responses will require an additional scope and fee.
- The draft report will only be revised once, with the final report being generated as the revised report. Additional drafts will require an additional scope and fee.
- For the draft and final reports, Environmental Consultant will provide one PDF copy in searchable Adobe Acrobat[™] (.pdf) format, unless another format is specified. Each electronic deliverable will be a single, searchable .pdf file that mirrors the layout and appearance of the hard copy.
- 19.5.2.1 Draft Cemetery Relocation Report
- 19.5.2.2 Final Cemetery Relocation Report

Alliance Regional Water Authority - Work Order #11	Project Fee Summary
	\$ 79,91
Prepared: January 27, 2022	
Detailed Overall Env Consultant Cost Breakdown	Total Effort \$ 79,915

												1																		Т
Task#		Project Role	Principal	DM	DPM	TDD (Jeeen)	ENV Professiona	Endangered	Endangered Species	ENV Tech II	ENIV Teeb I	USACE Permit	t USACE Permit	ENV Tech II	END/ Teeb I	CR Lead CR S	cientist CR Scien	ntist TWDB Lead	Calantint I	Env Tech II -	Env Tech I -	Senior GIS Analyst	GIS Analyst	GIS	dmin	Total Hours	Total B&A Labo	Total B&A Expense	Total Effort	Assumptions
rask#				PM					Scientist											Waters	Waters			Technician		i otal Hours	Effort	Expense	Total Ellort	Assumptions
	Ho	ourly Bill Rate	\$225.00	\$180.00	\$170.00	\$160.00	\$150.00	\$160.00	\$130.00	\$110.00	\$90.00				\$90.00	\$160.00 \$13	80.00 \$120.0	00 \$160.00	\$120.00	\$110.00	\$90.00	\$140.00	\$110.00	\$95.00 \$7	0.00			Liloit		
													Basic Serv	ices													-	-		
	Task 19 - Parcel E010 Cemetary Relocation																													
	Project management, schedule and meetings for the NEPA pro-	ocess																									\$ 7,220) \$ -	\$ 7,220	А
	Meetings																													A
19.1.1.1	Monthly Progress Meetings w/ Owners Rep Env Staff															4										4	\$ 640		\$ 640	j .
19.1.1.2	Additional Meetings - Owners Rep, Segment E Engineers			2	2											2										6	\$ 1,020	\$ -	\$ 1,020	See Discussion/Assumptions in Attached Scop
19.1.1.3	Internal Environmental Consultant Team Meetings			2	4						2					4										12	\$ 1,860	\$ -	\$ 1,860	of Work
19.1.1.4	Additional Meetings - Alliance Legal Counsel			2												2										4	\$ 680) \$ -	\$ 680	J OI WOIK
19.1.1.5	Additional Meetings - THC			2	2											2										6	\$ 1,020	\$ -	\$ 1,020	<i>/</i>
19.1.2	Deliverables																													A
19.1.2.1	Meeting Agenda and Notes/Summary			2	4										0 0 0 0 0 0 0 0 0	6										12	\$ 2,000	\$ -	\$ 2,000	See Discussion/Assumptions in Attached Scope of Work
19.2	District Court Coordination																										\$ 4,320	\$ -	\$ 4,320	
19.2.1	Alliance legal counsel coordination															8										8	\$ 1,280	\$ -	\$ 1,280	
19.2.2	THC Coordination															4										4	\$ 640) \$ -	\$ 640	of Work
19.2.3	Disinterment Permits			1	2		4									8										15	\$ 2,400) \$ -	\$ 2,400	of work
19.3	Texas Antiquities Permit																										\$ 12,190	\$ -	\$ 12,190	
19.3.1	Texas Antiquities Permit and SOW			2	4		6									32										44	\$ 7,060		\$ 7,060	
19.3.2	THC Coordination			1	2											4										7	\$ 1,160	\$ -	\$ 1,160	of Work
19.3.3	Deliverables																													
19.3.3.1	Draft TAC Permit and SOW			1	2		4									8									2	17	\$ 2,540) \$ -	\$ 2,540	See Discussion/Assumptions in Attached Scope
19.3.3.2	Final TAC Permit and SOW			1	1		2									4									2	10	\$ 1,430) \$ -	\$ 1,430	
19.4	Cemetery Relocation Field Work																										\$ 20,140	\$ 11,970	\$ 32,110	
19.4.1	Land Acquisition Coordination																													
19.4.1.1	Complete and submit PARF			1	1						2												9			4	\$ 530	\$ -	\$ 530	J
19.4.1.2	Coordinate with landowner for property access			1	1						2															4	\$ 530		\$ 530	See Discussion/Assumptions in Attached Scope
19.4.1.3	Additional work required to verify ROE			1	1						2															4	\$ 530	\$ -	\$ 530	of Work
19.4.2	Cemetery Relocation			2	4						4					32 5	50 40							4		136	\$ 18,200	\$ 11,970	\$ 30,170	лĪ
19.4.3	Deliverables																													
19.4.3.1	Field Checklists				1						2															3	\$ 350	\$ -	\$ 350	See Discussion/Assumptions in Attached Scope of Work
19.5	Cemetery Relocation Reporting																										\$ 24,075	5 \$ -	\$ 24,075	4
19.5.1	Prepare Cemetery Relocation Report			2	4		6									60 3	36						2	13	6	129	\$ 18,095	\$ -	\$ 18,095	See Discussion/Assumptions in Attached Scope of Work
19.5.2	Deliverables																													A
	Draft Cemetery Relocation Report			2	4		6									8								2	2	24	\$ 3,550	\$ -	\$ 3,550	See Discussion/Assumptions in Attached Scope
	Final Cemetery Relocation Report			1	2		2							<u> </u>		8						İ		2	2	17	\$ 2,430) s -	\$ 2,430	of Work

OTHER DIRECT COST			# OF UNITS	CC	OST BY TASK	TOTAL
<u>ltem</u>	<u>Unit</u>	Per Unit	TASK 19		TASK 19	COST
Lodging	daily	\$ 120.00	7	\$	840.00	\$ 840.00
ATV	daily	\$ 75.00		\$	-	\$ -
GPS	daily	\$ 100.00		\$	-	\$ -
Camera	daily	\$ 45.00	5	\$	225.00	\$ 225.00
Vehicle Mileage	per mile	\$ 0.58	250	\$	143.75	\$ 143.75
Vehicle Rental	daily	\$ 100.00		\$	-	\$ -
4X4 Vehicle Rental	daily	\$ 125.00		\$	-	\$ -
Vehicle Fuel	daily	\$ 30.00	3	\$	90.00	\$ 90.00
Per Diem - Meals	daily	\$ 45.00	7	\$	315.00	\$ 315.00
Misc. (Tolls, Parking)	daily	\$ 10.00	3	\$	30.00	\$ 30.00
Field Supplies	daily	\$ 20.00		\$	-	\$ -
Facility Rental	daily	\$ 800.00		\$	-	\$ -
Backhoe Rental	each	\$ 1,500.00	2	\$	3,000.00	\$ 3,000.00
Trackhoe Rental	each	\$ 2,000.00		\$	-	\$ -
Overnight Mail	each	\$ 40.00		\$	-	\$ -
Mail	piece	\$ 0.50		\$	-	\$ -
Color Plot (sq.ft.)	piece	\$ 1.50		\$	-	\$ -
Color Copies (per 8.5x11 sheet)	sheet	\$ 0.35		\$	-	\$ -
Color Copies (per 11x17 sheet)	sheet	\$ 0.50		\$	-	\$ -
Copies (per 8.5x11 sheet)	sheet	\$ 0.10		\$	-	\$ -
Copies (per 11x17 sheet)	sheet	\$ 0.10		\$	-	\$ -
Court Report	each	\$ 500.00		\$	-	\$ -
Curation of Archeological Materials	each	\$ 230.00	1	\$	230.00	\$ 230.00
Newspaper Ads	each	\$ 1,200.00		\$	-	\$ -
Physical Anthropologist	hourly	\$ 130.00	50	\$	6,500.00	\$ 6,500.00
Total Data Station Unit	daily	\$ 100.00	5	\$	500.00	\$ 500.00
TARL Site Form Filing Fee	each	\$ 96.00	1	\$	96.00	\$ 96.00
Other				\$	-	\$ -
Other				\$	-	\$ -
Other				\$	-	\$ -
Other				\$	-	\$ -
TOTAL OTHER DIRECT COST				\$	11,969.75	\$ 11,969.75

BOARD MEMBER PACKETS

Wednesday, February 23, 2022 at 3:00 P.M. County Line SUD Offices, 8870 Camino Real, Kyle, TX 78640

H.5 Consider adoption of Resolution 2022-02-23-002 approving Supplemental Amendment #2 to Work Order #5 with Walker Partners, LLC for additional hydraulic evaluation of the Phase 1B transmission system. ~ Graham Moore, P.E., Executive Director

Background/Information

The Authority entered into a Work Order for design of the Water Treatment Plant with Walker Partners, LLC in January 2020. As part of the design effort, the Walker Partners team conducted a hydraulic surge and transient analysis for the High Service Pump Station that included Pipeline Segments A and B1 to the Maxwell Booster Pump Station.

The surge and transient analysis needs to be updated to reflect the change in size for the Segment A pipeline to 48-inches along with accounting for the characteristics of the actual pumps purchased by the contractor for the High Service Pump Station. The analysis will help to confirm that the protective features (combination air valves and surge control tank) are properly sized and configured. Transient pressure gradients are one of the leading causes for pipe failure in a transmission system.

Below are some of the key facts regarding the proposal:

Firm: Walker Partners, LLC

Fee: \$56,338

Work Order Type: Lump Sum Anticipated Duration: 3 months Project Manager: Joe Jenkins, P.E.

Key Subconsultants: Northwest Hydraulics Consultants

Staff is requesting Board approval of the Supplemental #2 to Work Order #5 in a lump sum amount of \$56,338.

Attachment(s)

- Resolution 2022-02-23-002
- ARWA Phase 1B CM&I Proposal for 2022 revised January 12, 2022

Board Decision(s) Needed:

 Adoption of Resolution 2022-02-23-002 approving Supplemental Amendment #2 to Work Order #5 with Walker Partners, LLC for Hydraulic Surge and Transient Analysis of the High Service Pump Station for the Phase 1B Water Treatment Plant.



RESOLUTION NO. 20220223-002

A RESOLUTION OF THE ALLIANCE REGIONAL WATER AUTHORITY BOARD OF DIRECTORS APPROVING SUPPLEMENTAL AMENDMENT #2 TO WORK ORDER #5 BETWEEN THE AUTHORITY AND WALKER PARTNERS, LLC FOR SURGE AND TRANSIENT ANALYSIS OF THE HIGH SERVICE PUMP STATION FOR THE AUTHORITY'S PHASE 1B WATER TREATMENT PLANT PROJECT AND RELATED MATTERS, AND DECLARING AN EFFECTIVE DATE

RECITALS:

- 1. Alliance Regional Water Authority (the "Authority") entered into Work Order #3 with Walker Partners, LLC ("Walker Partners") for final design services of the Phase 1B Water Treatment Plant project in January 2020.
- **2.** The Authority entered into Work Order #5 with Walker Partners for construction administration services of the Phase 1B Water Treatment Plant project in May 2021.
- **3.** Supplemental Amendment #2 provides final hydraulic surge and transient analysis for the Phase 1B Water Treatment Plant High Service Pump Station to incorporate data from the selected pumps.
- **4.** The Authority Board of Directors required that any supplemental amendment that exceeds \$50,000 would require Board approval.
- **5.** The scope of services and fee for the supplemental amendment was negotiated by the Executive Director and the Owner's Representative on behalf of the Authority.

BE IT RESOLVED BY THE BOARD OF DIRECTORS OF THE ALLIANCE REGIONAL WATER AUTHORITY:

- **SECTION 1.** The attached supplemental amendment for Surge and Transient Analysis of the High Service Pump Station at the Phase 1B Water Treatment Plant between the Authority and Walker Partners is approved with a total fee of \$56,338.00.
- **SECTION 2.** The Authority's Executive Director, Graham Moore, is authorized to execute the supplemental amendment on behalf of the Authority.
- **SECTION 3.** This Resolution shall be in full force and effect immediately upon its passage.

Resolution 20220223-002 Walker Partners Supplemental #2 to Work Order #5

ADOPTED: February 23, 2022.	
	ATTEST:
Chris Betz	James Earp
Chair Board of Directors	Secretary Board of Directors

Work Order No. 005-Supplemental #2

Pursuant and subject to the Master Service Agreement between the Alliance Regional Water Authority (Alliance Water) and Walker Partners, LLC (Engineer), Alliance Water requests the Engineer to perform the services described below:

Work Site: <u>Caldwell County</u>										
_ · · · · · · · · · · · · · · · · · · ·	and transient analysis for the Phase 1B Water n to account for the procured pumps and final									
Date to Commence: February 24, 2022										
Date to Complete: May 31, 2022										
Cost Proposal to be: Lump Sum of \$56,338.00.										
Other Information/Requirements: <u>Additional supplemental services must be authorized</u> by a separate work order, should the need arise.										
Acceptance:										
Alliance Regional Water Authority	Walker Partners, LLC									
By:	By: Signature Joseph Jenkins									
Date:	Date:									





ALLIANCE WATER PHASE 1B PROGRAM PROGRAM MANAGEMENT PLAN

PROPOSAL FOR SUPPLEMENTAL WORK

TO: GRAHAM MOORE, P.E.; RYAN SOWA, P.E.

FROM: JOSEPH JENKINS, P.E.

SUBJECT: WORK ORDER No. 3 – ADDITIONAL DESIGN EFFORTS AND PROCUREMENT

SUPPLEMENTAL SERVICES REQUEST No. 7 - SURGE & TRANSIENT ANALYSIS

DATE: 12/20/2021

CC: MARISA VERGARA, P.E.

Work Order No. 3 includes the following supplemental task(s) for which additional scope and fee are being requested. The following describes new scope items not included in Walker Partners current approved tasks or scope items that are in addition to and build on existing scope items:

12.11 Surge and Transient Analysis:

Background

Walker Partners is pleased to present the following scope of work and corresponding budget to perform additional hydraulic surge transient analyses for the Alliance Regional Water Authority (ARWA) Water Treatment Plant. The previous hydraulic transient analysis was provided, and the results were documented, providing recommendations for surge control in a report titled, "Alliance Regional Water Authority Water Treatment Plant High Service Pump Station Hydraulic Transient Analysis" dated April 9, 2021.

It is our understanding that ARWA is requesting that the hydraulic transient analysis model be updated using the recent pump performance curve submittals for the pumps proposed for installation at the WTP HSPS and using the following drawing sets:

- 1. WTP HSPS 100 percent design submittal drawings,
- 2. Segment A conformed 100 percent submittal drawings dated March 2021,
- 3. Segment B 100 percent submittal drawings dated October 2021,
- 4. Lockhart Pipeline issued for bid drawings dated November 2021, and

5. Ground Storage Tank (GST) at the Maxwell Booster Pump Station (BPS) 100 Percent drawings.

It is our understanding that Segment A and the piping from the WTP HSPS to the beginning of Segment A will be 48-inch diameter pipe (in place of 42-inch pipe, which was the diameter used in the transient analysis documented in the April 9, 2021 report). It is also understood that Segment B and the Lockhart Pipeline will have diameters of 42 inches and 16 inches, which is unchanged from the transient analysis documented in the April 9, 2021 report.

This proposal was developed based on the following assumptions:

- 1. Surge control Strategy 1 (i.e., pressurized surge tank protection) in the April 9, 2021 report is the preferred surge control strategy (i.e., it will not be necessary to further evaluate Strategies 2 and 3).
- 2. Walker Partners will provide NHC with the submittal pump performance curves for the pumps at the WTP HSPS.
- 3. The maximum (Phase 1E Program) flow rate is unchanged from that documented in the April 9, 2021 report (i.e., 33.47 MGD).
- 4. The maximum flow rate to the Lockhart Tank is unchanged from that documented in the April 9, 2021 report (i.e., 1860 gpm per Table 4-17 in the November 2019 Water System Master Plan).

Scope of Work

This scope of work was developed assuming that the transient analyses would be performed once with the information provided by ARWA and that physical attendance at workshops and meetings would not be required. Each task necessary to complete the hydraulic transient analyses is discussed below.

Task 12.11.1 - Update transient model using 100 Percent Design Submittal Drawings

- 12.11.1.1 Coordination with Program to obtain drawings for the WTP HSPS Segment A, Segment B, the GST at the Maxwell BPS, and for other necessary additional information to perform the hydraulic transient analysis at 100 percent design. Obtain submittal pump performance curves for the pumps proposed for installation at the WTP HSPS, and proposed revisions to the diameters of Segment A (and, if necessary, Segment B) and the piping from the WTP HSPS to the beginning of Segment A (i.e., upsizing to 48-inch pipe from 42-inch pipe).
- 12.11.1.2 Extract lengths, diameters, and elevations from the 100 Percent Design Submittal Drawings for and the WTP HSPS, Segment A, Segment B, Lockhart Pipeline, and the GST at the Maxwell BPS. Revise pipe diameters, and recalculate friction factors and acoustic wavespeeds for Segment A (and if necessary, Segment B) and the piping from the WTP HSPS to the beginning of Segment A.
- 12.11.1.3 Revise transient analysis computer model of the system to include the 100 percent design of the WTP HSPS, Segment A, Segment B, Lockhart Pipeline and the GST at the BPS. Also, revise the transient analysis computer model to include the performance characteristics for the WTP HSPS submittal pumps.

- 12.11.1.4 Establish hydraulic grade line (HGL) elevations for the 100 percent design pipelines under steady state operation and static conditions for the Phase 1E Program operating scenario (i.e., maximum flow rate of 33.47 MGD) with the submittal pumps at the WTP HSPS in place. Lockhart high and zero demands will be included as necessary.
- 12.11.1.5 NHC will use the above initial HGL elevations to perform hydraulic transient analysis simulations for the operation of the submittal pumps at the WTP HSPS and the 100 percent design pipelines under the Phase 1E Program (33.47 MGD). Lockhart high and zero demands will be included as necessary to evaluate worst-case surge conditions. Transient simulations will include
 - a) pump power failure,
 - b) planned pump shutdown, and
 - c) pump startup.
- 12.11.1.6 Evaluate the results (i.e., predicted maximum and minimum pressures) of the transient analysis simulations and check whether additional surge control measures (i.e., measures in addition to Strategy 1 and/or modifications to Strategy 1) are required to protect the 100 percent design system from adverse pressure transients created by the loss of power, planned shutdown and startup of the submittal pumps at the WTP HSPS under the Phase 1E Program (33.47 MGD).
- 12.11.1.7 If additional surge control measures are deemed necessary with Strategy 1 in place, NHC will determine additional surge control measures for Strategy 1 (e.g., additional/larger pressurized surge tank, additional/larger controlled venting vacuum relief valves, additional/larger surge/pressure relief valves, etc.) for Segment A, Segment B, Lockhart Line, the GST at the Maxwell BPS, and the WTP HSPS under Phase 1E (33.47 MGD). The results of the hydraulic transient analyses with the recommended additional surge protection improvements in place will be provide. In addition, the recommendations for safely starting and stopping the pumps will be checked and, if necessary, modified.
- 12.11.1.8 Prepare a draft technical memorandum (intended to be an addendum to the April 9, 2021 report) that includes 1) a description of the modifications to the transient computer model, 2) necessary revisions to component data and assumptions used for the analyses, 3) the results of the hydraulic transient analyses, including graphical plots of the maximum and minimum HGL envelopes and maximum allowable pressure along the pipelines, and plots of pressure head at the WTP high service pump station and significant locations in the system, etc., 4) recommendations for surge control measures in addition to Strategy 1 and/or modifications to surge control Strategy 1, and 5) if necessary, revisions to the recommendations for safe startup and shutdown of the pumps. Following internal NHC QA/QC, the draft memo will be provided to Walker Partners in portable document format (PDF).
- 12.11.1.9 Following receipt of a consolidated set of comments on the revised draft technical memorandum from Walker Partners and the Program, NHC will address the comments and finalize the technical memoranda. The final memo will be provided as a PDF.
- 12.11.1.10 NHC will participate in one conference call (up to 2 hours in duration) to discuss the findings and recommendations presented in the draft addendum prior to finalizing the addendum. This task does not include a presentation (e.g.,

PowerPoint slides) of the findings and recommendations from the transient analysis.

A detailed breakdown of the level of effort for completing the work described above is shown in the Fee Table below. The Task 1 draft memorandum will be completed within 12 weeks of receiving a fully executed contract, notice to proceed, and the requested data. The final memo will be provided within 2 weeks of receiving comments on the draft memo. A list of data required to complete the work will be provided upon receipt of an executed contract.

Upon approval we will invoice this task as a lump sum fee based on percent of completion. We appreciate the opportunity to serve you on this important work, please contact me if you have any questions.

	Task 12 – Supplemental	Requested Amount
	and Transient Analysis	
12.11.1 Up (Lump Sun	odate transient model using 100 Percent Design Submittal	Drawings
12.11.1.1	Coordination with Program to obtain drawings for the WTP HSPS Segment A, Segment B, the GST at the Maxwell BPS, and for other necessary additional information to perform the hydraulic transient analysis at 100 percent design. Obtain submittal pump performance curves for the pumps proposed for installation at the WTP HSPS, and proposed revisions to the diameters of Segment A (and, if necessary, Segment B) and the piping from the WTP HSPS to the beginning of Segment A (i.e., upsizing to 48-inch pipe from 42-inch pipe).	\$932.00
12.11.1.2	Extract lengths, diameters, and elevations from the 100 Percent Design Submittal Drawings for and the WTP HSPS, Segment A, Segment B, Lockhart Pipeline, and the GST at the Maxwell BPS. Revise pipe diameters, and re- calculate friction factors and acoustic wavespeeds for Segment A (and if necessary, Segment B) and the piping from the WTP HSPS to the beginning of Segment A.	\$0.00
12.11.1.3	Revise transient analysis computer model of the system to include the 100 percent design of the WTP HSPS, Segment A, Segment B, Lockhart Pipeline and the GST at the BPS. Also, revise the transient analysis computer model to include the performance characteristics for the WTP HSPS submittal pumps.	\$0.00
12.11.1.4	Establish hydraulic grade line (HGL) elevations for the 100 percent design pipelines under steady state operation and static conditions for the Phase 1E Program operating scenario (i.e., maximum flow rate of 33.47 MGD) with the submittal pumps at the WTP HSPS in place. Lockhart high and zero demands will be included as necessary.	\$0.00

	NHC will use the above initial HGL elevations to perform	\$633.00
	·	ψ033.00
	hydraulic transient analysis simulations for the operation of	
	the submittal pumps at the WTP HSPS and the 100 percent	
	design pipelines under the Phase 1E Program (33.47 MGD).	
12.11.1.5	Lockhart high and zero demands will be included as	
12.11.1.0	necessary to evaluate worst-case surge conditions.	
	Transient simulations will include	
	a) pump power failure,	
	b) planned pump shutdown, and	
	c) pump startup.	
	Evaluate the results (i.e., predicted maximum and	\$0.00
	minimum pressures) of the transient analysis simulations	
	and check whether additional surge control measures (i.e.,	
	measures in addition to Strategy 1 and/or modifications to	
12.11.1.6	Strategy 1) are required to protect the 100 percent design	
12.11.1.0	system from adverse pressure transients created by the	
	loss of power, planned shutdown and startup of the	
	submittal pumps at the WTP HSPS under the Phase 1E	
	Program (33.47 MGD).	ФСОО ОО
	If additional surge control measures are deemed necessary	\$699.00
	with Strategy 1 in place, NHC will determine additional	
	surge control measures for Strategy 1 (e.g.,	
	additional/larger pressurized surge tank, additional/larger	
	controlled venting vacuum relief valves, additional/larger	
	surge/pressure relief valves, etc.) for Segment A, Segment	
12.11.1.7	B, Lockhart Line, the GST at the Maxwell BPS, and the WTP	
	HSPS under Phase 1E (33.47 MGD). The results of the	
	hydraulic transient analyses with the recommended	
	additional surge protection improvements in place will be	
	provide. In addition, the recommendations for safely	
	starting and stopping the pumps will be checked and, if	
	necessary, modified.	
	Prepare a draft technical memorandum (intended to be an	\$615.00
	addendum to the April 9, 2021 report) that includes 1) a	
	description of the modifications to the transient computer	
	model, 2) necessary revisions to component data and	
	assumptions used for the analyses, 3) the results of the	
	hydraulic transient analyses, including graphical plots of	
	the maximum and minimum HGL envelopes and maximum	
	allowable pressure along the pipelines, and plots of	
12.11.1.8	pressure head at the WTP high service pump station and	
12.11.1.0		
	significant locations in the system, etc., 4)	
	recommendations for surge control measures in addition	
	to Strategy 1 and/or modifications to surge control	
	Strategy 1, and 5) if necessary, revisions to the	
	recommendations for safe startup and shutdown of the	
	pumps. Following internal NHC QA/QC, the draft memo will	
	be provided to Walker Partners in portable document	
	format (PDF).	

12.11.1.9	Following receipt of a consolidated set of comments on the revised draft technical memorandum from Walker Partners and the Program, NHC will address the comments and finalize the technical memoranda. The final memo will be	\$0.00						
	provided as a PDF.							
12.11.1.10	NHC will participate in one conference call (up to 2 hours in duration) to discuss the findings and recommendations presented in the draft addendum prior to finalizing the addendum. This task does not include a presentation (e.g., PowerPoint slides) of the findings and recommendations from the transient analysis.	\$615.00						
Total Walker	Partners Task 12.11.1 (Lump Sum)	\$3,494						
NHC Fee for Supplemental Hydraulic Transient Analysis (see attached scope & fee proposal)								
	ask 12.11.1 (Task 2 – Lump Sum)	\$48,040.00						
Sub-consult	ant 10% Supplemental Markup – Lump Sum	\$4,804.00						

<u>Total (Lump Sum):</u> \$56,338.00

Alliance Water Phase 1B Program	Project Fee	Summary
Water Treatment Plant Consultant - Supplemental Request No. 7	Basic Effort	\$ -
12/21/2021	Supplemental	\$ 56,338
Detailed Overall Consultant Cost Breakdown	Total Effort	\$ 56,338

Task		Jenkins	Mike	Yen		Τ					T			\neg	
	Project Role		Senior Engineer I	Project Engineer I (EIT)	WP Total Hours	L	P Total abor Effort	WP 1 Expe	nse	NHC		tal Sub Effort	Tota	al Effort	
	Hourly Bill Rate		\$200.00	\$116.70											
	Supplementa Supplemental	4	8	6	18	\$	3,494	\$		\$ 48,040) \$	48,040	\$	51,534	
12.11	Surge and Transient Analysis			-		Ť									
12.11.1	Update transient model using 100 Percent Design Submittal Drawings				18	\$	3,494	\$	-	\$ 48,040	\$	48,040	\$	51,534	
12.11.1.1	Coordination with Program to obtain drawings for the WTP HSPS Segment A, Segment B, the GST at the Maxwell BPS, and for other necessary additional information to perform the hydraulic transient analysis at 100 percent design. Obtain submittal pump performance curves for the pumps proposed for installation at the WTP HSPS, and proposed revisions to the diameters of Segment A (and, if necessary, Segment B) and the piping from the WTP HSPS to the beginning of Segment A (i.e., upsizing to 48 inch pipe from 42 inch pipe).	1	2	2	5	\$	932	\$	-	\$ -	\$	-	\$	932	
12.11.1.2	Extract lengths, diameters, and elevations from the 100 Percent Design Submittal Drawings for and the WTP HSPS, Segment A, Segment B, Lockhart Pipeline, and the GST at the Maxwell BPS. Revise pipe diameters, and re calculate friction factors and acoustic wavespeeds for Segment A (and if necessary, Segment B) and the piping from the WTP HSPS to the beginning of Segment A.	0	0	0	0	\$	-	\$	-	\$ -	\$	-	\$	-	
12.11.1.3	Revise transient analysis computer model of the system to include the 100 percent design of the WTP HSPS, Segment A, Segment B, Lockhart Pipeline and the GST at the BPS. Also, revise the transient analysis computer model to include the performance characteristics for the WTP HSPS submittal pumps.	0	0	0	0	\$	-	\$		\$ -	\$		\$	-	
12.11.1.4	Establish hydraulic grade line (HGL) elevations for the 100 percent design pipelines under steady state operation and static conditions for the Phase 1E Program operating scenario (i.e., maximum flow rate of 33.47 MGD) with the submittal pumps at the WTP HSPS in place. Lockhart high and zero demands will be included as necessary.	0	0	0	0	\$	-	\$	-	\$ -	\$	-	\$	-	
12.11.1.5	NHC will use the above initial HGL elevations to perform hydraulic transient analysis simulations for the operation of the submittal pumps at the WTP HSPS and the 100 percent design pipelines under the Phase 1E Program (33.47 MGD). Lockhart high and zero demands will be included as necessary to evaluate worst case surge conditions. Transient simulations will include a) pump power failure, b) planned pump shutdown, and c) pump startup.	0	2	2	4	\$	633	\$	-	\$ -	\$	-	\$	633	
12.11.1.6	Evaluate the results (i.e., predicted maximum and minimum pressures) of the transient analysis simulations and check whether additional surge control measures (i.e., measures in addition to Strategy 1 and/or modifications to Strategy 1) are required to protect the 100 percent design system from adverse pressure transients created by the loss of power, planned shutdown and startup of the submittal pumps at the WTP HSPS under the Phase 1E Program (33.47 MGD).	0	0	0	0.0	\$	-	\$	-	\$ -	\$		\$	-	
12.11.1.7	If additional surge control measures are deemed necessary with Strategy 1 in place, NHC will determine additional surge control measures for Strategy 1 (e.g., additional/larger pressurized surge tank, additional/larger controlled venting vacuum relief valves, additional/larger surge/pressure relief valves, etc.) for Segment 8, Lockhart Line, the GST at the Maxwell BPS, and the WTP HSPS under Phase 1E (33.47 MGD). The results of the hydraulic transient analyses with the recommended additional surge protection improvements in place will be provide. In addition, the recommendations for safely starting and stopping the pumps will be checked and, if necessary, modified.	1	2	0	3.0	\$	699	\$	-	\$ -	\$	•	\$	699	
12.11.1.8	Prepare a draft technical memorandum (intended to be an addendum to the April 9, 2021 report) that includes 1) a description of the modifications to the transient computer model, 2) necessary revisions to component data and assumptions used for the analyses, 3) the results of the hydraulic transient analyses, including graphical plots of the maximum and minimum HGL envelopes and maximum allowable pressure along the pipelines, and plots of pressure head at the WTP high service pump station and significant locations in the system, etc., 4) recommendations for surge control measures in addition to Strategy 1 and/or modifications to surge control Strategy 1, and 5) if necessary, revisions to the recommendations for safe startup and shutdown of the pumps. Following internal NHC QA/QC, the draft memo will be provided to Walker Partners in portable document format (PDF).	1	1	1	3	\$	615	\$	-	\$ -	\$	-	\$	615	
12.11.1.9	Following receipt of a consolidated set of comments on the revised draft technical memorandum from Walker Partners and the Program, NHC will address the comments and finalize the technical memoranda. The final memo will be provided as a PDF.	0	0	0	0	\$	-	\$	-	\$ -	\$	-	\$	-	
12.11.1.10	does not include a presentation (e.g., PowerPoint slides) of the findings and recommendations from the transient analysis.	1	1	1	3	\$	615	\$	-	\$ -	\$	-	\$	615	
	Total Hours by Role:	4	8	6	Grand Total	\$	3,494	\$	-	\$ 48,040) \$	48,040	\$	51,534	



December 13, 2021

Walker Partners 804 Las Cimas Pkwy, Suite 150 Austin, TX 78746

Attention: Mr. Joseph W. Jenkins, P.E.

Senior Client Manager

Subject: Proposal to Perform Hydraulic Transient Analyses for the 100 Percent Design of the

Alliance Regional Water Authority WTP High Service Pump Station Project

NHC Ref. No.: P05006843

Dear Mr. Jenkins:

Northwest Hydraulic Consultants (NHC) is pleased to submit the following scope of work and budget to perform additional hydraulic transient surge analyses for the Alliance Regional Water Authority (ARWA) Water Treatment Plant (WTP) High Service Pump Station (HSPS) Project. NHC previously performed a hydraulic transient analysis for this project and documented the results of the analysis and recommendations for surge control in a report entitled "Alliance Regional Water Authority Water Treatment Plant High Service Pump Station Hydraulic Transient Analysis" that was dated April 9, 2021.

Project Understanding

It is our understanding that ARWA is requesting that the hydraulic transient analysis model be updated using the recent pump performance curve submittals for the pumps proposed for installation at the WTP HSPS and using the following drawing sets:

- 1. WTP HSPS 100 percent design submittal drawings,
- 2. Segment A conformed 100 percent submittal drawings dated March 2021,
- 3. Segment B 100 percent submittal drawings dated October 2021,
- 4. Lockhart Pipeline issued for bid drawings dated November 2021, and
- 5. Ground Storage Tank (GST) at the Maxwell Booster Pump Station (BPS) 100 Percent drawings¹.

It is our understanding that Segment A and the piping from the WTP HSPS to the beginning of Segment A will be 48-inch diameter pipe (in place of 42-inch pipe, which was the diameter used in the transient analysis documented in the April 9, 2021 report). It is also understood that Segment B and the Lockhart Pipeline will have diameters of 42 inches and 16 inches, which is unchanged from the transient analysis documented in the April 9, 2021 report.

¹ Please note that the results of the analyses and recommendations for surge control that are documented in the April 9, 2021 report were developed using the 60 Percent Design Submittal Drawings for Segment A, Segment B, Lockhart Pipeline Line, and the Ground Storage Tank (GST) at the Maxwell BPS, and the 90 percent Design Submittal Drawings for the WTP HSPS.



Mr. Joseph W. Jenkins, P.E., Walker Partners December 13, 2021 Page 2

This proposal was developed based on the following assumptions:

- 1. Surge control Strategy 1 (i.e., pressurized surge tank protection) in the April 9, 2021 report is the preferred surge control strategy (i.e., it will not be necessary to further evaluate Strategies 2 and 3).
- 2. Walker Partners will provide NHC with the submittal pump performance curves for the pumps at the WTP HSPS.
- 3. The maximum (Phase 1E Program) flow rate is unchanged from that documented in the April 9, 2021 report (i.e., 33.47 MGD).
- 4. The maximum flow rate to the Lockhart Tank is unchanged from that documented in the April 9, 2021 report (i.e., 1860 gpm per Table 4-17 in the November 2019 Water System Master Plan).

Scope of Work

This scope of work was developed assuming that the transient analyses would be performed once with the information provided by Walker Partners and ARWA and that physical attendance at workshops and meetings would not be required. Each task necessary to complete the hydraulic transient analyses is discussed below.

- 1. Co-ordinate with Walker Partners to obtain drawings for the WTP HSPS Segment A, Segment B, the GST at the Maxwell BPS, and for other necessary additional information to perform the hydraulic transient analysis at 100 percent design. Obtain submittal pump performance curves for the pumps proposed for installation at the WTP HSPS, and proposed revisions to the diameters of Segment A (and, if necessary, Segment B) and the piping from the WTP HSPS to the beginning of Segment A (i.e., upsizing to 48-inch pipe from 42-inch pipe).
- 2. Extract lengths, diameters, and elevations from the 100 Percent Design Submittal Drawings for and the WTP HSPS, Segment A, Segment B, Lockhart Pipeline, and the GST at the Maxwell BPS. Revise pipe diameters, and re-calculate friction factors and acoustic wavespeeds for Segment A (and if necessary, Segment B) and the piping from the WTP HSPS to the beginning of Segment A.
- 3. Revise transient analysis computer model of the system² to include the 100 percent design of the WTP HSPS, Segment A, Segment B, Lockhart Pipeline and the GST at the BPS. Also, revise the transient analysis computer model to include the performance characteristics for the WTP HSPS submittal pumps.
- 4. Establish hydraulic grade line (HGL) elevations for the 100 percent design pipelines under steady state operation and static conditions for the Phase 1E Program operating scenario (i.e., maximum flow rate of 33.47 MGD) with the submittal pumps at the WTP HSPS in place. Lockhart high and zero demands will be included as necessary.

² Please note that the existing transient analysis model was developed using the 60 Percent Design Submittal Drawings for Segment A, Segment B, Lockhart Pipeline Line, and the GST at the Maxwell BPS, and the 90 percent Design Submittal Drawings for the WTP HSPS.



Mr. Joseph W. Jenkins, P.E., Walker Partners December 13, 2021 Page 3

- 5. NHC will use the above initial HGL elevations to perform hydraulic transient analysis simulations for the operation of the submittal pumps at the WTP HSPS and the 100 percent design pipelines under the Phase 1E Program (33.47 MGD). Lockhart high and zero demands will be included as necessary to evaluate worst-case surge conditions. Transient simulations will include
 - a) pump power failure,
 - b) planned pump shutdown, and
 - c) pump startup.
- 6. Evaluate the results (i.e., predicted maximum and minimum pressures) of the transient analysis simulations and check whether <u>additional surge control measures</u> (i.e., measures in addition to Strategy 1 and/or modifications to Strategy 1) are required to protect the 100 percent design system from adverse pressure transients created by the loss of power, planned shutdown and startup of the submittal pumps at the WTP HSPS under the Phase 1E Program (33.47 MGD).
- 7. If additional surge control measures are deemed necessary with Strategy 1 in place, NHC will determine additional surge control measures for Strategy 1 (e.g., additional/larger pressurized surge tank, additional/larger controlled venting vacuum relief valves, additional/larger surge/pressure relief valves, etc.) for Segment A, Segment B, Lockhart Line, the GST at the Maxwell BPS, and the WTP HSPS under Phase 1E (33.47 MGD). The results of the hydraulic transient analyses with the recommended additional surge protection improvements in place will be provided. In addition, the recommendations for safely starting and stopping the pumps will be checked and, if necessary, modified.
- 8. Prepare a draft technical memorandum (intended to be an addendum to the April 9, 2021 report) that includes 1) a description of the modifications to the transient computer model, 2) necessary revisions to component data and assumptions used for the analyses, 3) the results of the hydraulic transient analyses, including graphical plots of the maximum and minimum HGL envelopes and maximum allowable pressure along the pipelines, and plots of pressure head at the WTP high service pump station and significant locations in the system, etc., 4) recommendations for surge control measures in addition to Strategy 1 and/or modifications to surge control Strategy 1, and 5) if necessary, revisions to the recommendations for safe startup and shutdown of the pumps. Following internal NHC QA/QC, the draft memo will be provided to Walker Partners in portable document format (PDF).
- 9. Following receipt of a consolidated set of comments on the revised draft technical memorandum from Walker Partners and the Program, NHC will address the comments and finalize the technical memoranda. The final memo will be provided as a PDF.
- 10. NHC will participate in one conference call (up to 2 hours in duration) to discuss the findings and recommendations presented in the draft addendum prior to finalizing the addendum. This task does not include a presentation (e.g., PowerPoint slides) of the findings and recommendations from the transient analysis.

Cost Estimate and Schedule

Table 1 provides our cost estimate (time and materials) for completing the work described above. NHC's fee schedule is also enclosed. We will submit monthly invoices for work conducted in the previous month. The Task 1 draft memorandum will be completed within about 12 weeks of receiving a fully executed contract, notice to proceed, and the requested data. The final memo will be provided within 2 weeks of receiving



Mr. Joseph W. Jenkins, P.E., Walker Partners December 13, 2021 Page 4

comments on the draft memo. A list of data required to complete the work will be provided upon receipt of an executed contract.

Table 1. Cost Estimate

		Number of Hours per Employee										
Task		D. Axworthy/ H. Fehlman			M. Nissim							
Number	Task Description	Principal	Engineer 1	Junior Engineer	Tech. Editor	Cost						
		\$255/hr	\$145/hr	\$115/hr	\$115/hr							
1	100 Percent Design Transient Analysis	70	96	136	2	\$ 47,640						
	Direct Cost					\$ 400						
Task Tota	ls	70	96	136	2	\$ 48,040						

Closure

The Principal-in-Charge for NHC will be available immediately after selection to complete project management tasks necessary to start the project. NHC will commit the key individuals to be available to begin work with a notice to proceed from Walker Partners and will also commit these individuals to the level of involvement necessary to maintain the project schedule.

If you have any questions or need further information, please do not hesitate to contact me at (626) 440-0080 or by email at dAxworthy@nhcweb.com. We look forward to again working with Walker Partners on this interesting project.

Yours truly,

Northwest Hydraulic Consultants Inc.

Javid H. Chourthy

David H. Axworthy, Ph.D., P.E. Principal-in-Charge for NHC



Labor

SCHEDULE OF STANDARD CHARGES

(Effective April 2021)

Fee Rate

Category	(\$US/hour)
Principal	
Principal T3 Sr. Project Engineer/Scientist Sr. Engineer/Scientist 1 Sr. Engineer/Scientist 2 Engineer/Scientist 2 Jr. Engineer/Scientist GIS Analyst 1 GIS Analyst 2 Sr. Engineering Technician Engineering Technician Jr. Engineering Technician Sr. Engineering Lab Technician Sr. Contract Administrator Sr. Technical Editor Technical Editor	
Office Administrator	90
Handling Charges / Fees	Photocopies \$/sheet
Markup on Subconsultants 10% Markup on Reimbursables 10% Markup on Travel/Subsistence 10%	B&W 8½ x 11 \$0.10 B&W 11 x 17 \$0.15 Color 8½ x 11 \$1.00 Color 11 x 17 \$2.00
Plotting \$/sheet	

Plots, bond, 11 x 17 \$2.00 Plots, bond, D size \$4.00 Plots, oversize (running foot) \$2.00

BOARD MEMBER PACKETS

Wednesday, February 23, 2022 at 3:00 P.M. County Line SUD Offices, 8870 Camino Real, Kyle, TX 78640

H.6 Update, discussion and possible direction to Staff regarding the Authority's Phase 1B Cost and Schedule Updates. ~ Ryan Sowa, P.E., Kimley-Horn & Associates

Background/Information

Ryan Sowa with Kimley-Horn will update the Committee on the Phase 1B Cost and Schedule Updates.

Attachment(s)

• Phase 1B Cost and Schedule Update – February 23, 2022

Board Decision(s) Needed:

Possible direction to Staff.



Phase 1B Program Schedule & Budget Update



Board of Directors Meeting February 23, 2022

PRESENTED BY



Schedule Update – Pipeline Critical Path

Alignment Confirmation

Environmental Completion

Agency Review

TWDB Review

Segment C

- Alignment Confirmation proposed development conflicts on a few parcels under evaluation
- Environmental Completion pending alignment confirmation

Segment D

- Agency Review USACE report resubmittal to address agency comments
- TWDB Review pending USACE approval

Segment E

- Environmental Completion remaining field work completed and approved by THC
- Agency Review THC submittal being finalized



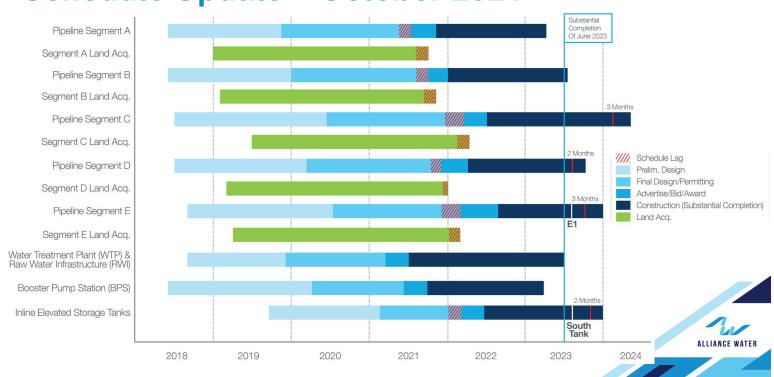
Schedule Update

Other Developments Since Last Update

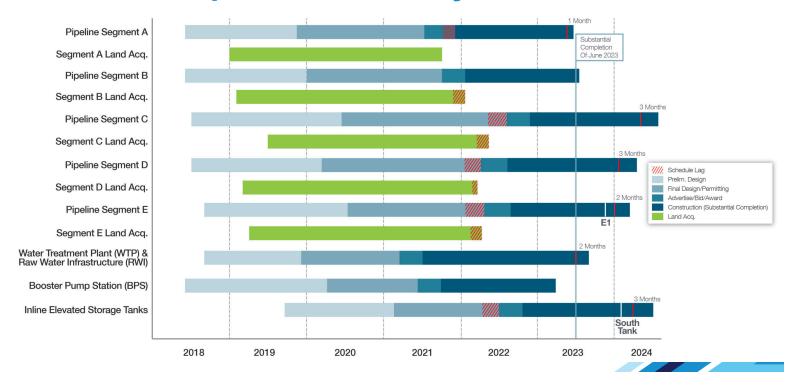
- Pipeline Design
 - · No critical path concerns
- Easement Acquisition (Pipelines)
 - Commissioners Hearing Scheduling
 - · Caldwell County nearly complete
 - Guadalupe County
 - Segment D mostly complete
 - Segment E ongoing
 - Hays County underway



Schedule Update – October 2021



Schedule Update – February 2022



Schedule Update

Transmission Pipelines – Segment B

- No Significant Change
 - Substantial Completion 07/12/23
- Current Key Risks:
 - Land acquisition final agreements on remaining parcels
- Mitigation
 - Expedited coordination with remaining landowners' representatives to finalize agreements

Transmission Pipelines – Segment C

- Net Delay of 3 Months
 - Substantial Completion 08/20/24
- Current Key Risks:
 - Alignment Confirmation landowner realignment requests
 - USACE Waters of the US
- Mitigation
 - Intermediate schedule milestones for key delivery points (County Line SUD, Kyle)
 - Further consideration of construction schedule reduction
 - Continual landowner coordination



Schedule Update

Transmission Pipelines – Segment D

- · Delay of 3 Months
 - Substantial Completion 03/20/24
- · Key Risks:
 - USACE jurisdictional determinations and resolution
 - · TWDB review durations
 - Land acquisition scheduling of hearings
- Mitigation
 - Release for procurement ahead of TWDB EDF review completion
 - Further consideration of construction schedule reduction
 - · Continual check-ins with USACE, TWDB

Transmission Pipelines – Segment E

- Delay of 2 Months
 - Substantial Completion (Segment E1) 12/07/23
 - Substantial Completion (Segment E2) 02/08/24
- Current Key Risks:
 - Environmental relocation of remains
 - TWDB review durations
 - Land acquisition land sales/subdividing, scheduling of hearings
- Mitigation
 - Consideration of contractual split from E2

Schedule Update

Inline Elevated Storage Tanks

- Total Adjustment of 3 Months
 - Substantial Completion (South Tank) 01/24/24
 - Substantial Completion (North Tank) 04/17/24
- Current Key Risks:
 - Environmental each tank included in corresponding pipe segment reports
- Mitigation
 - Potential separate bidding of South Tank to align schedule with Segment D



ALLIANCE WATER



Budget Update

- ► Summary of Changes in Last 3 Months:
 - Net Increase of \$100,000
 - Pipeline Segment B
 - Updated for approved construction award amount
 - Addition of construction contingency
 - San Marcos Water Treatment Plant Improvements Project
 - Includes piping improvements for an emergency connection to ARWA Segment B
 - Updated for approved construction award amount
 - Addition of construction contingency
 - Inline Elevated Storage Tanks
 - 60% Submittal received, which included updated construction cost projection



		ORIGINAL (FEB. 2019)	REVISED	
	Construction Package	ARWA Total Projected Cost	ARWA Total Projected Cost	DIFFERENCE
ubmittal (%)	Combined Program Infrastructure			
Const.	Water Treatment Plant	\$ 25,200,000	\$ 29,500,000	\$ 4,300,000
Const.	Booster Pump Station & GBRA Meter Stations	\$ 13,400,000	\$ 1,300,000	
60	Inline EST (South)	\$ 3,600,000	\$ 4,100,000	\$ 500,000
Const.	Pipeline Segment A	\$ 27,200,000	\$ 28,600,000	\$ 1,400,000
Const.	Pipeline Segment B	\$ 27,100,000	\$ 33,800,000	\$ 6,700,000
100	Pipeline Segment D	\$ 36,300,000	\$ 43,700,000	\$ 7,400,000
90	Pipeline Segment E	\$ 9,500,000	\$ 10,900,000	\$ 1,400,000
	Subtotal	\$141,000,000	\$164,000,000	\$ 23,000,000
	ARWA-Only Infrastructure			
Const.	Well Drilling	\$ 3,800,000	\$ 3,300,000	(\$ 500,000)
Const.	Raw Water Infrastructure	\$ 7,000,000	\$ 10,600,000	\$ 3,600,000
Const.	ARWA Booster Pump Station & Delivery Points	\$ 7,700,000	\$ 4,800,000	(\$ 2,900,000)
30	Inline EST (North)	\$ 5,400,000	\$ 6,500,000	\$ 1,100,000
90	Pipeline Segment C	\$ 64,500,000	\$ 68,600,000	\$ 4,100,000
90	Pipeline Segment E (ARWA-Only)	\$ 6,700,000	\$ 12,600,000	\$ 5,900,000
No Design	Administration and Operations Building	\$ 4,300,000	\$ 4,200,000	(\$ 100,000)
	Subtotal	\$ 99,400,000	\$110,600,000	\$ 11,200,000
	Total	\$240,400,000	\$274,600,000	\$34,200,000
EBRUARY :	2021 UPDATE			NO CHANGE FROM JANUARY UPDATE

Budget Update

► Additional Notes:

- Continued Pipeline Cost Reduction Evaluation
- Construction Materials Market Volatility
- Land Acquisition & Real Estate





Questions?

BOARD MEMBER PACKETS

Wednesday, February 23, 2022 at 3:00 P.M. County Line SUD Offices, 8870 Camino Real, Kyle, TX 78640

H.7 Update, discussion and possible direction to Staff regarding timing and financing of project cost increases. ~ *Graham Moore, P.E., Executive Director*

Background/Information

Following the discussion from the previous Board meetings regarding cost increases in the physical infrastructure and easements associated with the Phase 1B Program, Staff has worked with the Authority's Financial Advisors, Specialized Public Finance, to determine what interest rates and debt service paybacks may be required if additional funding is garnered through the Texas Water Development Board (TWDB) State Water Implementation Fund of Texas (SWIFT). Below are the results:

Entity	Α	mount to be	Annual Debt	Payback	Average
		Financed	Service	Term	Interest Rate
CRWA	\$	14,460,000	\$732,000	30-years	2.787%
Kyle	\$	13,195,000	\$670,000	30-years	2.787%
San Marcos	\$	16,760,000	\$1,070,000	20-years	1.996%
Buda	\$	2,410,000	\$157,000	20-years	1.994%
TOTAL	\$	46,825,000	\$2,629,000		

The listed interest rates are the October 2021 SWIFT interest rates with an additional 50-basis points of cushion. It is also important to note that in 2021 the TWDB reduced the subsidy amounts offered on the 20-year notes from 35% to 20% and for the 30-year notes from 20% to 14%.

Staff submitted an Abridged Application for SWIFT funding to the TWDB by the deadline of February 1, 2022 to preserve the right to utilize this funding source.

Staff is continuing to review other options for financing.

Board decision needed:

Possible direction to Staff.

BOARD MEMBER PACKETS

Wednesday, February 23, 2022 at 3:00 P.M. County Line SUD Offices, 8870 Camino Real, Kyle, TX 78640

H.8 Consider adoption of Resolution 2022-02-23-004 approving Work Order #6 with Kimley-Horn & Associates, Inc. for Owner's Representative Services for March 2022 through February 2023 for the Authority's Phase 1B Program, as recommended by the Technical Committee. ~ Graham Moore, P.E., Executive Director

The Authority entered into a work order with Kimley-Horn & Associates, Inc. in February 2018 for the first year of Owner's Representative Services for the Phase 1B Program and entered into work orders in February 2019, 2020 and 2021 for the second, third and fourth years. The current work order is set to expire on February 28, 2022.

The table below outlines the contracted fees for Owner's Representative services for the first two work orders and the actual/projected total expenditure for each:

Work Order / Period	Contract Value	Total Expenditure
#1 (3/18 – 2/19)	\$2,609,966	\$1,984,280
#2 (3/19 – 2/20)	\$2,877,103	\$2,815,225
#3 (3/20 – 2/21)	\$3,110,422	\$3,110,422
#4 (3/21 – 2/22)	\$2,685,433	\$2,400,000*

^{*} Projected

The Executive Director negotiated a new work order with Kimley-Horn to begin on March 1, 2022 and extend through February 28, 2023. Below is a summary of the scope of work.

Scope of Work

A detailed scope of work is attached with summary costs listed below. Due to the scale of the effort it is difficult to get a definitive list of all activities that will be required. It will be incumbent upon the Executive Director to closely monitor the activities and expenditures.

Task	Anticipated Fee
1 – Program Management Plan Updates	\$9,550
2 – Stakeholder Coordination	\$219,391
3 - Budgeting	\$91,175
4 - Schedule	\$38,838
5 – Reporting	\$44,890
6 – Data Management	\$87,965
7 – Environmental Management	\$62,796
8 – Land Acquisition Management	\$459,289
9 – TWDB Management	\$70,355
10 – Design Standards Updates	\$41,994

BOARD MEMBER PACKETS

Wednesday, February 23, 2022 at 3:00 P.M. County Line SUD Offices, 8870 Camino Real, Kyle, TX 78640

11 – Engineering Design Management	\$209.034
12 – Quality Assurance	\$8,140
13 – Electrical Power Planning	\$30,183
14 – Permit Coordination/Tracking	\$48,510
15 – Procurement & Construction Phase	\$300,483
16 – Project Administration	\$38,166
17 – Other Services	\$16,200
18 – Environmental Const Phase Svcs	\$212,142
Maximum Fee	\$1,989,091

Fee Schedule

The work is proposed to be contracted on an hourly rate basis. Kimley-Horn's subconsultants account for 60.4% of the total anticipated effort, with 59.4% of the total effort contracted to Historically Underutilized Businesses. The costs include a 10% markup by Kimley-Horn on all subconsultants work.

Contract

The work order will be issued under the terms and conditions of the Master Agreement entered into between Kimley-Horn and Alliance Water in May 2016.

Attachment(s)

- Resolution 2022-02-23-003
- Proposal dated February 4, 2022 from Kimley-Horn for Phase 1B Owner's Representative Services

Recommendation(s)

 The Technical Committee unanimously recommended approval of the Work Order at their February meeting.

Board decision needed:

 Adoption of Resolution 2022-02-23-004 approving Work Order #6 with Kimley-Horn and Associates for continued Owner's Representative Services for the Phase 1B Program from March 1, 2022 through February 28, 2023.



RESOLUTION NO. 20220223-004

A RESOLUTION OF THE ALLIANCE REGIONAL WATER AUTHORITY BOARD OF DIRECTORS APPROVING WORK ORDER #6 BETWEEN THE AUTHORITY AND KIMLEY-HORN & ASSOCIATES, INC. FOR OWNER'S REPRESENTATIVE SERVICES FOR MARCH 2021 THROUGH FEBRUARY 2022 RELATED TO THE AUTHORITY'S PHASE 1B PROGRAM AND RELATED MATTERS, AND DECLARING AN EFFECTIVE DATE

RECITALS:

- 1. The Alliance Regional Water Authority (the "Authority") through the adoption of Resolution 20180228-003 entered into a work order with Kimley-Horn & Associates, Inc. ("Kimley-Horn") for Owner's Representative Services for the Authority's Phase 1B Program. The scope of services was for the time period beginning March 1, 2018 and ending February 28, 2019. Separate work orders for three subsequent years running from March through February were later approved by the Board.
- **2.** The Hays Caldwell Public Utility Agency, the predecessor to the Authority entered into a master agreement with Kimley-Horn for engineering services and related matters in August 2015.
- **3.** The scope of services and fee for the attached work order was negotiated by the Executive Director on behalf of the Authority. The scope of services covers the period from March 1, 2022 through February 28, 2023. The work order references terms and conditions in the approved Master Agreement between the Authority and Kimley-Horn.

BE IT RESOLVED BY THE BOARD OF DIRECTORS OF THE ALLIANCE REGIONAL WATER AUTHORITY:

- **SECTION 1.** The attached work order for Owner's Representative services between the Authority and Kimley-Horn is approved.
- **SECTION 2.** The Executive Director of Alliance Regional Water Authority, Graham Moore, is authorized to execute the attached agreement on behalf of the Authority.
- **SECTION 3.** This Resolution shall be in full force and effect immediately upon its passage.

7.001 120. 1 colddiy 25, 2022.	
	ATTEST:
Chris Betz	James Earp
Chair, Board of Directors	Secretary, Board of Directors

ADOPTED: February 23, 2022



Pursuant and subject to the Master Service Agreement between the Alliance Regional

Water Authority (Authority) and Kimley-Horn & Associates, Inc. (Engineer), the

Work Order No. 6

Authority requests the Engineer to perform t	he services described below:			
Work Site: Desktop study and analysis	Work Site: Desktop study and analysis			
Work to Be Performed: <u>Serve as an Owner's Representative to Alliance Regional Water</u> <u>Authority by assisting in the overall project delivery of Phase 1B Program as detailed in the Scope of Services letter dated February 4, 2022.</u>				
Date to Commence: March 1, 2022				
Date to Complete: February 28, 2023				
Cost Proposal to be:Fixed Fee Hourly Rate				
Maximum Fee Not-to-Exceed: \$1,989,091				
Other Information/Requirements:				
Acceptance:				
Alliance Regional Water Authority	Kimley-Horn & Associates, Inc.			
By: Signature	By:Signature			
Graham Moore, Executive Director	Glenn Gary			
Date:	Date:			



February 4, 2022

Mr. Graham Moore, P.E. Executive Director Alliance Regional Water Authority 1040 Highway 123 San Marcos, TX 78666

RE: Scope of Services - Work Order No. 6

Phase 1B Infrastructure - Owner's Representative

PROJECT DEFINITION AND BACKGROUND

The Alliance Regional Water Authority (Alliance Water) has developed a Capital Improvements Plan (CIP) per Resolution 20160525-008 that identifies anticipated infrastructure requirements over the several decades. This CIP is divided into multiple project delivery phases. Phase 1A is scheduled to be completed in 2018. Phase 1B consists of infrastructure to be delivered by the end of 2023 and includes groundwater wells, water treatment plant, transmission mains, booster pump station, and eight (8) delivery points. Alliance Water and Guadalupe Blanco River Authority (GBRA) have entered into an agreement to oversize a portion of the proposed Phase 1B infrastructure to accommodate delivery of water to both Alliance Water as well as GBRA customers (three additional delivery points). The infrastructure to be oversized includes: water treatment plant, a significant portion of the transmission mains, and booster pump station.

Alliance Water has obtained a State Water Implementation Fund for Texas (SWIFT) loan from the Texas Water Development Board (TWDB) for the proposed Phase 1B Program.

The Scope of Services for this agreement consists of Kimley-Horn and Associates, Inc. ("Kimley-Horn" or "Owner's Representative") serving Alliance Water as an Owner's Representative by assisting in the management of the overall project delivery of Phase 1B Program through the completion and startup of the infrastructure in 2023. In performing the services, the Owner's Representative will endeavor to operate as an extension of Alliance Water's staff. The Owner's Representative will function as the representative and not the agent of Alliance Water. The Owner's Representative will exercise independent judgment and will operate without extensive oversight and direction. The Owner's Representative will commit the personnel and resources required to perform the services throughout the term of this Agreement.

Work Order No. 6 will extend for a duration of 12 months. Attachment A identifies the key phases that each infrastructure contract is anticipated to complete within this 12-month period.



KEY TERMINOLOGY

- **Consultants** refers collectively to consultants (design, environmental, and land acquisition) that will be procured by and contracted directly with Alliance Water for the Phase 1B Program.
- Land Acquisition Consultant Team refers to consultants (legal, land agent / appraisal, and survey) that will be procured by and contracted directly with Alliance Water for the land acquisition process for the Phase 1B Program.
- **Environmental Consultant** refers to the consultant that will be procured by and contracted directly with Alliance Water to perform environmental services for the Phase 1B Program.
- Combined Program refers to the infrastructure that will be shared between Alliance Water and GBRA.

SCOPE OF WORK

1. Program Management Plan Updates

This task consists of the ongoing implementation and maintenance of the Phase 1B Program Management Plan (PMP) that was developed in Work Order No. 2. The PMP defines the policies and procedures to be implemented by Phase 1B Program personnel. Tasks to be performed may include the development of additional PMP components as well as the maintenance of the following components already developed:

- 1.1. Communication Protocol
- 1.2. Document Control / Data Management Protocol
- 1.3. Quality Assurance Plan
- 1.4. Milestone Review Process Protocol
- 1.5. Risk Management Plan
- 1.6. Land Acquisition Protocol
- 1.7. Environmental Management Protocol
- Texas Water Development Board (TWDB) Protocol
- 1.9. Design Management Protocol
- 1.10. Budget and Funding Protocol
- 1.11. Schedule Protocol
- 1.12. Reporting Protocol
- 1.13. Permit Management Protocol
- 1.14. GBRA & Project Advisory Committee (PAC) Protocol
- 1.15. Procurement Protocol
- 1.16. Construction Protocol, including integration of the Construction Management & Inspection (CM&I) team
- 1.17. PMP Appendices

Task Meetings:

None



2. Stakeholder Coordination

This task consists of the coordination that will be required by the Owner's Representative in performance of the management of the Phase 1B program. Perform stakeholder coordination in accordance with the protocol established in the PMP. This task consists of:

- 2.1. Stakeholder identification Not Used
- 2.2. Initial and/or Ongoing Coordination
 - 2.2.1. Executive Director
 - 2.2.2. Technical Committee and Board Meetings attend and present status updates
 - 2.2.3. Project Advisory Committee (PAC) Meetings attend and present status updates
 - 2.2.4. Other Alliance Water Consulting Services (Public Relations, Accounting, Legal)
 - 2.2.5. Texas Commission on Environmental Quality (TCEQ)
 - 2.2.6. Texas Department of Transportation (TxDOT)
 - 2.2.7. Union Pacific Railroad (UPRR)
 - 2.2.8. Counties (Hays, Caldwell, Guadalupe)
 - 2.2.9. Cities (Kyle, San Marcos, Uhland, Lockhart, Maxwell, others)
 - 2.2.10. GBRA and/or its consultants
 - 2.2.11. Other utilities, entities

Task Meetings:

- Alliance Water Executive Director coordination meetings
- Alliance Water Executive Committee and Board Meetings
- PAC Meetings
- Other Alliance Water Consulting Services as part of coordination meetings with Executive Director
- Texas Commission on Environmental Quality
- Texas Department of Transportation
- Union Pacific Railroad
- Counties
- Cities
- Other utilities, entities
- Design consultants will be required to meet with agencies separately on project specific issues.

3. Budgeting

Maintain the budget tracking protocol developed in the PMP for the Phase 1B Program. It is assumed that the budget will be maintained in Microsoft Excel and linked to the schedule. The format of the budget will be in accordance with TWDB requirements. Monthly Budget updates are anticipated with monthly review sessions as established in the PMP. This task consists of:

- 3.1. Perform monthly budget updates:
 - 3.1.1. Track costs to the Phase 1B Program versus the anticipated budget. Costs associated with the Combined Program will be tracked separately.



- 3.1.2. Coordinate with applicable parties to receive current opinion of probable construction cost (OPCC) data for projects as identified in PMP.
- 3.1.3. Identify budget deviations and coordinate with applicable parties for potential corrective measures. Summarize budget deviations within monthly updates.
- 3.2. Prepare budget updates for the following parties at the frequency identified:
 - 3.2.1. Executive Director monthly
 - 3.2.2. Alliance Water Board and Technical Committee quarterly
 - 3.2.3. PAC quarterly
 - 3.2.4. TWDB quarterly
 - 3.2.5. Public quarterly
- 3.3. Program Cost Analysis and Review perform cost analyses, which may include: evaluating proposed design standards and specifications, obtaining contractor input, and comparing cost projections prepared by Design Consultants to look for potential options for controlling projected program costs.

None.

4. Schedule

Maintain the schedule as Identified in the PMP for the Phase 1B Program. The schedule management will be performed monthly using Microsoft Project with schedule review sessions as established in the PMP (concurrent with budget review sessions). This task consists of:

- 4.1. Perform monthly schedule updates:
 - 4.1.1. Coordinate with applicable parties to obtain current schedules for projects
 - 4.1.2. Identify schedule deviations and coordinate with applicable parties for potential corrective measures. Schedules for projects in construction will be evaluated by others and for the purposes of the monthly update these schedules will be condensed into only the primary construction tasks.
 - 4.1.3. Special updates will be performed when critical information becomes known
- 4.2. Prepare schedule updates for the following parties at the frequency identified:
 - 4.2.1. Executive Director monthly
 - 4.2.2. Alliance Water Board and Technical Committee quarterly
 - 4.2.3. PAC quarterly
 - 4.2.4. TWDB quarterly
 - 4.2.5. Public quarterly
- 4.3. Program Schedule Analysis and Review perform overall program schedule analysis, which may include: obtaining contractor input and comparing schedules prepared by Design Consultants to look for potential options for controlling projected program schedule.

Task Meetings:

None.



5. Reporting

Prepare routine progress reports as identified in the PMP for the Phase 1B Program. This task consists of:

- 5.1. Prepare monthly progress reports:
 - 5.1.1. Coordinate with applicable parties to obtain status for project tasks
 - 5.1.2. Provide Board and Technical Committee a detailed report identifying what was worked on during the previous month and what is anticipated for the following month
- 5.2. Prepare progress updates for the following parties at the frequency identified:
 - 5.2.1. Executive Director weekly summary and monthly report
 - 5.2.2. Alliance Water Board and Technical Committee monthly
 - 5.2.3. PAC monthly
 - 5.2.4. TWDB quarterly
 - 5.2.5. Public quarterly

Progress reports for projects in construction will be prepared by the CM&I team.

Task Meetings:

None.

6. Data Management

Manage record keeping as established in the PMP. Data storage will continue to be performed utilizing Microsoft SharePoint as well as Esri ArcGIS. This task consists of:

- 6.1. Overall data management:
 - 6.1.1. Perform administrative support functions for overall project record keeping and implementing the data management system;
 - 6.1.2. Enter information into applicable data management system;
 - 6.1.3. Distribute updated contract documents ensuring program team maintain current version of project documents;
 - 6.1.4. Prepare, manage, record, distribute and archive documentation of project activities, progress, and related communications;
 - 6.1.5. Log receipt of documents and inquiries requiring a response, provide delivery of documents to appropriate parties, track documents, and monitor timely response;
 - 6.1.6. Review supporting documents for conformance with PMP guidelines;
 - 6.1.7. Maintain project records;
 - 6.1.8. Maintain change management logs, RFI logs, RFPs logs, submittal logs;
 - 6.1.9. Perform internal audits for quality assurance of overall documents.
- 6.2. Microsoft SharePoint:
 - 6.2.1. Perform ongoing data management of documents within SharePoint,
- 6.3. Interactive Web-based GIS:
 - 6.3.1. Perform data updates for the following data to be hosted in ArcGIS application, assumed to occur at the frequencies identified:
 - Background Imagery (provided by Esri basemapping) annually;
 - Parcel data (right-of-entry and land acquisition status) weekly;



- City / County / District boundaries annually;
- Alliance Water proposed infrastructure monthly;
- FEMA 100-year floodplain (from FEMA map service) annually;
- United States Geological Service (USGS) National Hydrography Dataset (from USGS hosted map service) – annually;
- United States Fish and Wildlife Service (USFWS) National Wetlands Inventory (from USFWS hosted map service) – annually;
- Desktop/Field Environmental data provided by Environmental Consultant monthly;
- Topographical data annually;
- Existing utility data monthly;
- · Construction progress tracking monthly

Updates/edits will be performed in an ArcGIS Desktop environment prior to being viewable in the web-based application. Data and application support and hosting will be provided for the duration of this this Work Order.

- 6.4. Coordination with Construction Management and Inspection (CMI) Team regarding GPS Collected Data:
 - 6.4.1. Coordinate with CMI Team regarding setting up Web-Based GIS site to accept their collected field data.
 - 6.4.2. Review data loaded to the Web-Based GIS by the CMI Team on a monthly basis to confirm construction data is being collected as each project progresses and confirm naming convention is being followed by the CMI Team. CMI Team responsible for their own internal QA/QC, Kimley-Horn to spot check for conformance.

Task Meetings:

None.

Deliverables:

- Hard copy deliverables to be provided to Alliance Water and other parties as part of the Owner's Representative services are included in this task. Deliverables may include:
 - Meeting agendas;
 - Program status reports;
 - Copies of the PMP:
 - Exhibits.

7. Environmental Management

Perform environmental management and coordination for the Phase 1B Program in accordance with the PMP. This task consists of:

- 7.1. Perform regular coordination with Environmental Consultant to discuss ongoing activities, schedule, potential issues, deliverables, and other items related to their scope of work.
- 7.2. In conjunction with the Environmental Consultant, perform ongoing coordination with key agencies, including:
 - 7.2.1. United States Army Corps of Engineers (USACE)



- 7.2.2. Texas Parks and Wildlife Department (TPWD)
- 7.2.3. Local floodplain administrators.
- 7.3. Assist with the review of Environmental Consultant monthly invoices.
- 7.4. Perform continuous tracking of Environmental Consultant's project scope and assist with the development and review of potential amendments.
- 7.5. Perform as-needed site visits with Environmental Consultant during their field studies.
- 7.6. To the extent reasonably possible, site visits will be coordinated with those identified in Task 8 and 11.
- 7.7. Review and comment on environmental permitting documents (prepared by Environmental Consultant) for the following agencies:
 - 7.7.1. USACE
 - 7.7.2. TPWD
 - 7.7.3. United States Fish and Wildlife Service (USFWS)
 - 7.7.4. Texas Historical Commission (THC).
- 7.8. Review and comment on TWDB environmental deliverables prepared by Environmental Consultant.
- 7.9. Other Environmental Services as identified and assigned by Alliance Water.

- Environmental agency (USACE, USFWS, TPWD, THC) meetings
- Environmental Consultant Team progress meetings

8. Land Acquisition Management

Perform management and coordination for the Phase 1B Program land acquisition process in accordance with the PMP and the RAMP. This task consists of:

- 8.1. Perform regular coordination with Land Acquisition Consultant Team (including weekly progress meetings) to discuss ongoing activities, schedule, potential issues, deliverables, and other items related to their scope of work.
- 8.2. Assist with the review of Land Acquisition Consultant Team monthly invoices.
- 8.3. Perform continuous tracking of Land Acquisition Consultant's project scope and assist with the development and review of potential amendments.
- 8.4. Review land acquisition data for conformance to the PMP/RAMP requirements and provide comments to the Land Acquisition Consultant Team.
- 8.5. Perform as-needed site visits with Land Acquisition Consultant Team.
- 8.6. To the extent reasonably possible, site visits will be coordinated with those identified in Task 7 and 11.
- 8.7. Review and comment on TWDB land acquisition deliverables prepared by Land Acquisition Consultant Team.
- 8.8. Coordination with landowners to facilitate access for Consultants for field work,
- 8.9. Assist in the resolution of title issues (such as recent landowner transactions) by contacting/visiting County appraisal districts and other offices as needed to obtain relevant deeds, plats, and similar documents.
- 8.10. Weekly meetings with Alliance Water and Special Counsel as well as biweekly meetings with the Program Surveyor.
- 8.11. Other Land Acquisition Services as identified and assigned by Alliance Water.



Land Acquisition Team progress meetings

9. Texas Water Development Board Management

Perform management and coordination with the TWDB for the Phase 1B Program in accordance with the PMP. This task consists of:

- 9.1. Identify milestone deliverables and provide feedback on critical path schedule.
- 9.2. Review TWDB deliverables for conformance to TWDB requirements and provide comments to the Consultants.
- 9.3. Perform regular coordination with the TWDB to discuss ongoing activities, schedule, potential issues, status of deliverables, and other items related to the TWDB SWIFT loan.
- 9.4. Prepare fund release request letters for submission to the TWDB, including required backup information.

Task Meetings:

TWDB progress meetings

10. Design Standards Updates

This task shall include the revising and updating of design standards documents already prepared in prior Work Orders. Categories may consist of:

- 10.1. Revisions/Updates to Design Standards, Specifications and Details (develop and/or update as needed):
 - 10.1.1. Transmission Pipelines and Delivery Points Design Standards
 - 10.1.2. Standard Specifications for Construction
 - 10.1.3. Standard Details
 - 10.1.4. Pipeline Corrosion Protection Standards
 - 10.1.5. Telemetry, Instrumentation & Controls, SCADA, and Security Standards Development of Design Standards, Specifications and Details for the following:
 - 10.1.5.1. Fiber Optic Design Standards, Specifications and Details
 - 10.1.5.2. SCADA Communication Standards, Specifications and Details
 - 10.1.5.3. Instrumentation Standards, Specifications and Details
 - 10.1.5.4. Security Standards, Specifications and Details
 - 10.1.6. Facility General Electrical Standards to be developed by the Water Treatment Plant Consultant as part of their specification development. The Owner's Representative will review and comment and coordinate with other applicable Consultants to promote consistency.
- 10.2. Master Specifications develop and/or update as needed
- 10.3. Record Drawings (Plans & GIS)
- 10.4. Address comments from Design Consultant Teams and finalize

Task Meetings:

Specifications and Details Review Meeting (1 total).



11. Engineering Design Management

Perform engineering design management and coordination for the Phase 1B Program in accordance with the PMP. Manage the following proposed design contracts:

- 11.1. Hydrogeology / Well Drilling
- 11.2. Raw Water Infrastructure
- 11.3. Water Treatment Plant and High Service Pump Station
- 11.4. Transmission Pipelines (5 contracts)
- 11.5. Administration Building and Operations Center
- 11.6. Booster Pump Station and Delivery Points
- 11.7. Elevated Storage Tanks
- 11.8. Program Survey

The following tasks may be performed, as applicable to the current status of the contract:

- Identify early actions required.
- Assist with the development and review of project scope (new contracts and/or contract amendments) for the Design Consultants.
- Assist with the review of proposed LOE developed by the Design Consultants.
- Review and provide comments on the Project Management Plans prepared by the Design Consultants.
- Assist with the review of Design Consultant monthly invoices.
- Perform regular coordination with the Design Consultants to discuss ongoing activities, schedule, potential issues, deliverables, and other items related to their scope of work.
- Perform as-needed site visits with Design Consultants.
- To the extent reasonably possible, site visits will be coordinated with those identified in Task
 7 and 8.
- Review and comment on TWDB Engineering Feasibility Report (EFR) deliverables prepared by Design Consultants.
- Review and comment on milestone submittals (60%, 90%, final) prepared by Design Consultants.
- Review/Provide comments on Consultant OPCCs at milestones.
- Other Design-related services as assigned by Alliance Water.
- 11.9. Commissioning Planning This task includes evaluating potential options for start-up and commissioning of the Phase 1B infrastructure, including coordination with Alliance Water members (sponsors) and other water utilities in the vicinity of the Phase 1B infrastructure.

Task Meetings:

Consultant Design Teams progress meetings

12. Quality Assurance

Perform Quality Assurance protocol for the Phase 1B Program in accordance with the PMP. This task includes:

12.1. Review the Quality Assurance / Quality Control (QA/QC) Plans prepared by the Consultants for conformance to the PMP and provide comments.



- 12.2. Perform regular coordination with Consultants to confirm implementation of QA/QC in project activities.
- 12.3. At each milestone submittal, receive QA/QC documentation from Consultants and review for adherence to QA/QC Plan.

None.

13. Electrical Power Planning

Perform ongoing planning and coordination support associated with the electrical power required for the Phase 1B Program infrastructure, which may include the following:

- Well Pumps and Raw Water Infrastructure
- Water Treatment Plant and High Service Pump Station
- Booster Pump Station, Administration Building and Operations Center
- Potential Corrosion Protection Systems for Transmission Pipelines

The following tasks shall be performed:

- 13.1. Perform preliminary analyses and coordinate with Design Consultants to determine approximate demand and energy associated with each of the potential service locations.
- 13.2. Develop a strategy for contacting, gathering system quality and reliability data, and discussing rates with each of the electrical service providers.
- 13.3. Coordinate with the electrical service providers to evaluate potential cost and reliability of service options for each location.
- 13.4. Assist Alliance Water with negotiations of the electrical supply agreements.
- 13.5. Assist the Alliance by defining special equipment needs such as power factor correction, motor starting equipment to mitigate voltage dips, etc.

Task Meetings:

Alliance Water and Electrical Service Providers coordination meetings

14. Permit Coordination/Tracking

Perform permit coordination and tracking associated with the Phase 1B Program in accordance with the PMP. The following tasks shall be performed:

- 14.1. Perform regular coordination with the Consultants to discuss ongoing activities, schedule, potential issues, and other items related to permitting.
- 14.2. Incorporate permit updates from Consultants into master permit tracking list. The master permit tracking list will maintain linkage to the master schedule.
- 14.3. The following list identifies the anticipated entities that will require approvals and/or permits in the performance of the Phase 1B Program. The Consultant will provide design documents and exhibits required as part of the permit submittal.



- 14.3.1. TCEQ includes the following tasks:
 - Permitting and Public Water Supply coordination for delivery points,
 - · Corrosion Report coordination,
 - Exception Request submittal and coordination.
- 14.3.2. TxDOT
- 14.3.3. UPRR
- 14.3.4. Counties (Hays, Caldwell, Guadalupe)
- 14.3.5. Cities (Kyle, San Marcos, Uhland, Lockhart, Maxwell, others)
- 14.3.6. Private utilities

■ As already defined in Task 2 – Stakeholder Coordination.

15. Procurement and Construction Phase Services

Perform Procurement and Construction Phase Services associated with the Phase 1B Program in accordance with the PMP.

Throughout the duration of Procurement and Construction Phase Services, the Consultant for each respective project will provide professional opinions, render engineering judgement, and make final decisions for any adjustment to design intent or revisions to construction documents. The CM&I will lead the development and implementation of the construction management plan and perform inspections for the projects. The Owner's Representative team will function as an administrative liaison between the parties but will not direct the Consultants to make changes to the design.

The following tasks are anticipated:

15.1. Procurement Services

- 15.1.1. Pre-Proposal Meeting
 - 15.1.1.1. Prepare agenda and lead meeting
 - 15.1.1.2. Collect questions and provide to Design Consultant for review and response
- 15.1.2. Addenda Review
 - 15.1.2.1. Review administratively
- 15.1.3. Proposal Evaluation and Recommendation
 - 15.1.3.1. Review and participate in scoring proposals submitted for construction packages and provide formal recommendation to Owner
- 15.1.4. Committee and Board Items
 - 15.1.4.1. Present Proposal Summary and formal recommendation to PAC and Board as well as the Technical Committee, if time permits
- 15.1.5. Execution of Contract
 - 15.1.5.1. Coordinate construction contract execution



15.2. Construction Phase Services

- 15.2.1. Administration
 - 15.2.1.1. Prepare and present at workshop on administrative construction procedures
 - 15.2.1.2. Review and comment on Construction Administrative Data Management Plan (prepared by the CM&I)
 - 15.2.1.3. Coordination with design consultant, CM&I and Alliance Water for general management tasks
- 15.2.2. Preconstruction Meetings
 - 15.2.2.1. Attend
- 15.2.3. Monthly Construction Meetings
 - 15.2.3.1. One (1) member of the Owner's Representative team will attend monthly construction meetings for all projects, scheduled on the same 1 to 2-day span each month.
- 15.2.4. Construction Activities Review and comment on applicable items, and attend meetings as needed:
 - 15.2.4.1. Submittals (review of Program-wide elements only)
 - 15.2.4.2. Substitutions (Consultant provides recommendation, Owner's Representative reviews and advises Owner)
 - 15.2.4.3. Request for Information (only if RFI has contractual implications)
 - 15.2.4.4. Pay Request (review for administrative completeness only)
 - 15.2.4.5. Defective Work (Consultant provides recommendation, Owner's Representative reviews and advises Owner)
 - 15.2.4.6. Change Orders (Consultant provides recommendation, Owner's Representative reviews and advises Owner)
 - 15.2.4.7. Record Drawings (review for administrative completeness only)
 - 15.2.4.8. Commissioning (attend and coordinate ARWA sponsors as needed)
 - 15.2.4.9. Substantial Completion
 - 15.2.4.10. Final Walkthrough
 - 15.2.4.11. Warranty Walkthrough

Note: the Owner's Representative will perform procurement and construction phase services associated with the SCADA and Security elements to be included under the Water Treatment Plant and High Service Pump Station contract. The Owner's Representative shall lead the effort for these elements under Task 15, while coordinating with the design consultant.

Task Meetings:

As already defined in Task 15 – Procurement and Construction Phase Services.

16. Project Administration

For this task, "Project" refers to the contract between the Owner's Representative and Alliance Water. The following tasks shall be performed:

16.1. Invoicing – the Owner's Representative shall submit invoices monthly in the approved format for Alliance Water review and approval. Each monthly invoice package shall include the invoice and project status report.



16.2. Project Management – the Owner's Representative shall perform miscellaneous administrative tasks, including management of manpower and budgets, subconsultant management, and other activities associated with managing the overall Owner's Representative contract.

Task Meetings:

None.

17. Other Services

Perform services on an as-directed basis as directed by Alliance Water. These tasks could include:

- 17.1. Water Quality Testing and Coordination This task consists of sampling and testing of the raw water source and customer treated water sources. This task will include testing protocols, on-site testing, lab coordination and review, summary reporting and coordination with the Water Treatment Plant Design Consultant. Sampling will occur at the raw water wells for Alliance Water and GBRA for evaluating chlorine decay, trihalomethane (THM) formation, and/or other constituents. Treated water quality sampling will be near the locations of the Alliance Water delivery points and will be performed for water blending analyses. Water quality sampling and testing will be approved in advance by Alliance Water based on the outcomes of water quality workshops and related coordination. Lab and equipment fees will be paid separately by Alliance Water.
- 17.2. TCEQ Exception Request and Interconnect Submittals Not Used refer to Task 14.3.1.
- 17.3. Other Tasks as Assigned by Alliance Water These tasks may include items such as: desktop-level analyses of specific technical topics (such as water quality), preparation of presentations related to technical or risk topics, and other services as requested by Alliance Water.

Task Meetings:

None

18. Environmental Construction Phase Services

Perform services on an as-directed basis as directed by Alliance Water. These tasks could include:

- 18.1. Pre-Construction Meeting with Contractor Prepare presentation or talking points reflective of environmental conditions that must be adhered to during the construction of the facility and present information to the contractor. The environmental team will provide necessary contact information to the contractor and when it would be necessary to stop work and contact the environmental team.
- 18.2. Migratory Bird Nest Survey This task consists of completing a survey for migratory bird nests prior to vegetation clearing if it will occur between March 15 and September 15. The easement and any temporary construction easements would be surveyed for migratory bird nests. The survey would consist of a field survey of vegetation that would be cleared within five (5) days of the survey. Survey schedule would be required based on the five-day clearing

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210 541 9166



- schedule that the contractor is able to accomplish. Any nests that are found would be marked with flagging along with a buffer around the nest and would be monitored until the birds leave the nest. Any abandoned nests that do not appear to have active nesting use would be removed to prevent use of the nest. A short memorandum will be prepared following the survey for each facility documenting survey results and compliance with regulations.
- 18.3. Cultural Resources On-call services will be provided in the event that cultural resources are encountered, or excavation reveals sites of potential cultural importance, unmarked graves, or human remains, work will stop, and the Owner's Representative will be contacted to assess the situation, conduct a site visit if needed, determine the need for further investigation following THC protocol, and complete disposition of any identified features. If cultural resource features are encountered, the THC will be contacted for further consultation and guidance as to the need for further investigations or surveys. Coordination with the U.S. Army Corps of Engineers (USACE) will also occur if the site is within jurisdictional areas. This Scope of Services does not include an archeological survey. A report will be prepared and submitted documenting the results of any investigations or consultations which have occurred.
- 18.4. Encounter protected species On-call services will be provided in the event state or federally listed threatened or endangered species or potential habitats are encountered by construction workers during the construction period. Upon notification by Alliance Water and its construction contractor, the Owner's Representative will conduct a site visit, consult with federal and state agencies as needed or required, and develop avoidance and/or mitigation measures including relocation of the species if necessary.
- 18.5. USACE Compliance and Reporting This task includes tasks associated with USACE compliance. This includes updated photos of water crossings pre-construction, ensuring easement boundaries are clearly marked within jurisdictional areas, photos of post-construction once vegetation is reestablished, and report preparation. The report would include confirmation that the work was performed in accordance with USACE requirements, a summary of the work that was performed, a comparison of pre-construction and post-construction conditions of jurisdictional areas, a description of all impacts to waters of the U.S., documentation that disturbed areas have been revegetated, and any associated exhibits necessary.
- 18.6. Hazardous Materials On-Call This task consists of a subconsultant to Kimley-Horn providing on-call hazardous material investigations during the construction phase of the project. The following activities are anticipated to be conducted:
 - 18.6.1. Upon notification of discovery of potentially hazardous materials during construction, Owner's Representative will mobilize a subconsultant to the location to evaluate and document site conditions and, if warranted, collect samples for environmental laboratory analyses. The subconsultant will determine the appropriate laboratory analyses for the material encountered and will submit the samples on a requested turn-around time agreeable to the Client. Standard analyses (in accordance with the Resource Conservation Recovery Act) appropriate for evaluation of construction worker safety and waste characterization will be selected. Excavation, transport, and disposal of material is not included in this scope of work.
 - 18.6.2. Owner's Representative will provide the analytical results and recommendations after receiving and reviewing final analytical reports from the laboratory and provide this information to Alliance Water and the construction contractor. The contractor will be responsible for developing a contractor safety plan.



18.6.3. For each on-call incident, a brief written summary will be provided via email communication to document activities associated site evaluation, analytical testing, and waste management.

Assumptions:

- Each site visit would consist of a 12-hour day for two staff members.
- For migratory bird surveys, it is anticipated that the following number of days would be needed per facility/segment:
 - o Two (2) days would be required for BPS survey.
 - Fifteen (15) days for Segment A.
 - Fifteen (15) days for Segment B.
 - Segments C, D and E would not require nest surveys since the construction site clearing would start and conclude outside of nesting season.
- Updated photos of jurisdictional areas will be taken during nest survey work, for the purposes
 of estimating fee. If nest surveys are not required at the beginning of construction for a
 segment, such as Segment D, two (2) days would be required per segment to take photos for
 jurisdictional crossings. This excludes Segments B and E as there are no impacts to
 jurisdictional waters for the segment. If feasible, photos could also be taken by the Program
 Construction Managers, Pape-Dawson, in lieu of the environmental team mobilizing should it
 be necessary.
- For cultural resources, two site visits by two staff members are anticipated to be required.
- For threatened/endangered species or habitats, one site visit for the water treatment plant
 and booster pump station by two staff members and one visit by two staff members for the
 pipelines are assumed. A report will be prepared and submitted documenting the results of
 any investigations or consultations which have occurred (see deliverables below).
- USACE reporting would only be required for Segment A, C, and D in this Work Order as Segments B and E avoid USACE impacts.
- Actual report deliverable would not be required as construction is not anticipated to be complete
 during the work order period. Only work to document existing conditions and organize data and
 reports would be accomplished during this work order.



FEE AND EXPENSES

Kimley-Horn will perform the services in Tasks 1 - 18 on a labor fee plus expense basis until the maximum fee is reached. The budgets for each task are shown below.

Task 1	Program Management Plan	\$	9,550.00
Task 2	Stakeholder Coordination	\$	219,391.00
Task 3	Budgeting	\$	91,175.00
Task 4	Schedule	\$	38,828.00
Task 5	Reporting	\$	44,890.00
Task 6	Data Management	\$	87,965.00
Task 7	Environmental Management	\$	62,796.00
Task 8	Land Acquisition Management	\$	459,289.00
Task 9	TWDB Management	\$	70,355.00
Task 10	Design Standards	\$	41,994.00
Task 11	Engineering Design Management	\$	209,034.00
Task 12	Quality Assurance	\$	8,140.00
Task 13	Electrical Power Planning	\$	30,183.00
Task 14	Permit Coordination/Tracking	\$	48,510.00
Task 15	Procurement and Construction Phase Services	\$	300,483.00
Task 16	Project Administration	\$	38,166.00
Task 17	Other Services	\$	16,200.00
Task 18	Environmental Construction Phase Services	\$	212,142.00
	Maximum Fee	\$1	,989,091.00

Kimley-Horn will not exceed the total maximum fee shown without authorization from Alliance Water. Individual task amounts are provided for budgeting purposes only. Kimley-Horn reserves the right to reallocate amounts among tasks as necessary. Labor fee will be billed on an hourly basis according to our then-current rates. As to these tasks, direct reimbursable expenses such as subconsultants, express delivery services, fees, air travel, and other direct expenses will be billed at 1.10 times cost. Administrative time related to the project may be billed hourly. All permitting, application, and similar project fees will be paid directly by Alliance Water.

Kimley-Horn agrees that Alliance Water may reduce the scope of services for any (or all) of the tasks included in the work order. Kimley-Horn will be notified of any such reductions via a written directive describing the effort to be reduced. Kimley-Horn shall be paid for all services rendered and expenses incurred to the effective date of reduced scope.

Payment will be due within 25 days of your receipt of the invoice and should include the invoice number and Engineer project number.

Please contact me at (210) 321-3414 or ryan.sowa@kimley-horn.com should you have questions.

Very Truly Yours,

V. Ryan Sowa, P.E.

Project Manager

Glenn Gary, P.E.

Senior Vice President

ATTACHMENT A – ANTICIPATED TASKS FOR PHASE 1B CONTRACTS DURING WORK ORDER NO. 6

					CON	ITRACT PHAS	SE			
CONTRACT	CONSULTANT PROCUREMENT	CONSULTANT CONTRACT EXECUTION	DESKTOP ANALYSES & SITE/ROUTE SELECTION	RIGHTS- OF-ENTRY OBTAINED	FIELD VISITS & ANALYSES	PRELIMINARY ENGINEERING REPORT COMPLETED	TWDB FINAL DESIGN/LAND ACQ. FUNDING RELEASES	FINAL DESIGN	PROCUREMENT FOR CONSTRUCTION	CONSTRUCTION PHASE
PIPELINE SEGMENT A										Х
PIPELINE SEGMENT B										Х
PIPELINE SEGMENT C							Х	Х	Х	Х
PIPELINE SEGMENT D							Х		Х	Х
PIPELINE SEGMENT E							Х	Х	Х	Х
WELL DRILLING										
OPS. CENTER & ADMIN. BUILDING										
RAW WATER INFRASTRUCTURE										Х
WATER TREATMENT PLANT										X
BOOSTER PUMP STATION & DELIVERY POINTS										Х
ELEVATED STORAGE TANKS							Х	Х	Х	

Alliance Regional Water Authority Owner's Representative Work Order No. 6 Rate Schedule

(Hourly Rate)

QA/QC Engineer / Senior Project Manager / Principal	\$285
Senior Technical Advisor / Deputy Project Manager	\$235
Senior Instrumentation / Electrical Engineer	\$225
Property Acquisition Manager	\$235
Senior Scheduler	\$220
Senior Architect	\$215
Senior Environmental Manager	\$200
Senior Engineer	\$195
GIS Specialist	\$180
Instrumentation / Electrical Engineer	\$170
Senior Biologist	\$165
Civil Engineer	\$175
GIS Developer	\$170
IT Professional	\$155
Engineer-in-Training II	\$150
Architectural Project Manager	\$145
CADD Operator / Senior Technician	\$145
Engineer-in-Training I	\$130
GIS Analyst	\$135
Biologist	\$120
Acquisition / Title Specialist	\$140
Senior Historian	\$110
Document Control Specialist	\$125
Administrative Staff / Technician	\$95
Archeologist	\$85

						Alli- B :	4 A 1											D	- 0
					Owne	Alliance Regional Wa er's Representative / Program Ma		ork Order No. 6)											e Summary \$ 1,989,091
					5	2/4/2022	2												
				1		Detailed Overall Kimley-Ho	rn Cost Break	down											
				l .			Scope of S	ervices										I	
Task		0				CADD						Total							
	Project Role QA/QC / Senior Mngr / Principal	Senior Tech. Avis / Deputy Prj	Senior Engineer	GIS Specialist	Civil Engineer	IT Professional GIS Developer Operator / En	ngineer-in- raining II Training		/ T	Total Hours	Total Labor Effort	Expense	Foster CM Group	CP&Y Grub	b Spitzer	RVK	V&A	Total Sub Effort	Total Effort Assumptions
		wingi	\$195.00	\$180.00	\$175.00	\$155.00 \$170.00 \$145.00 \$		roomi			Liioit	Effort	Cioup						
	Task 1 - Program Management Plan Updates	Ψ200.00	ψ133.00	\$100.00	\$175.00	ψ130.00 ψ170.00 ψ143.00 ψ	130.00 \$130.0	y 4100.00 400.	50		\$ 5,590	\$ -	\$ 1,980	\$ - \$	- \$ 1,98	30 \$ -	\$ -	\$ 3,960	\$ 9,550
	Communication Protocol 1 Document Control / Data Management Protocol 1		1				1 1 2	2		6	\$ 950 \$ 1,230		\$ - :	\$ - \$ \$ - \$	- \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ 950 \$ 1,230
1.3	Quality Assurance Plan		·					_		0	\$ -		\$ -	\$ - \$	- \$ -	\$ -	\$ -	\$ -	\$ -
	Milestone Review Process Protocol Risk Management Plan									0	\$ - \$ -		\$ -	\$ - \$ \$ - \$	- \$ - - \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -
1.6	Land Acquisition Protocol									0	\$ -		\$ -	\$ - \$	- \$ 1,98	30 \$ -	\$ -	\$ 1,980	\$ 1,980
	Environmental Management Protocol Texas Water Development Board (TWDB) Protocol									0	\$ - \$ -		\$ -	\$ - \$ \$ - \$	- \$ - - \$ -	\$ - \$ -	\$ - \$ -	\$ -	\$ -
1.9	Design Management Protocol									0	\$ -		\$ -	\$ - \$	- \$ -	\$ -	\$ -	\$ -	\$ -
	Budget and Funding Protocol Schedule Protocol									0	\$ - \$ -		\$ 990 S	\$ - \$ \$ - \$	- \$ - - \$ -	\$ - \$ -	\$ - \$ -	\$ 990 \$ 990	
1.12	Reporting Protocol									0	\$ -		\$ -	\$ - \$	- \$ -	\$ -	\$ -	\$ -	S -
	Permit Management Protocol GBRA & PAC Protocol									0	\$ - \$ -		\$ - :	\$ - \$ \$ - \$	- \$ - - \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	S -
1.15	Procurement Protocol 1		1				1 1	2		6	\$ 950		\$ -	\$ - \$	- \$ -	\$ -	\$ -	\$ -	\$ 950
	Construction Protocol 1 PMP Appendices 1		1				2 2 2	2 2		8	\$ 1,230 \$ 1,230		\$ -	\$ - \$ \$ - \$	- \$ - - \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ 1,230 \$ 1,230
	Task 2 - Stakeholder Coordination Stakeholder Identification									0	\$ 126,885 \$ -	\$ 4,000	\$ 7,370 S	\$ 58,388 \$ \$ - \$	- \$ 22,74 - \$ -	\$ -	\$ - \$ -	\$ 88,506 \$ -	\$ 219,391 \$ -
2.2	Initial and/or Ongoing Coordination									0	\$ -		\$ -	\$ - \$	- \$ -	\$ -	\$ -	\$ -	\$ -
2.2.1 2.2.2	Executive Director 52 Technical Committee and Board									52 0	\$ 14,820 \$ -		\$ - :	\$ - \$ \$ 1,034 \$	- \$ -	\$ -	\$ - \$ -	\$ - \$ 1,034	\$ 14,820 \$ 1,034
2.2.3	PAC									0	\$ -		\$ -	\$ 1,034 \$	- \$ -	\$ -	\$ -	\$ 1,034	\$ 1,034
2.2.4 2.2.5	Other Alliance Water Consulting Services 12 Texas Commission on Environmental Quality 6									12 6	\$ 3,420 \$ 1,710		\$ - :	э - \$ \$ - \$	- \$ -	\$ -	\$ -	\$ -	\$ 3,420 \$ 1,710
2.2.6	Texas Department of Transportation									0	\$ -		\$ -	\$ - \$	- \$ -	\$ -	\$ -	\$ -	\$ -
2.2.7 2.2.8	Union Pacific Railroad Counties (Hays, Caldwell, Guadalupe) 6									6	\$ - \$ 1,710		\$ - :	э - S \$ - S	- \$ -	\$ -	\$ -	\$ -	\$ - \$ 1,710
2.2.9	Cities (Kyle, San Marcos, Uhland, Lockhart, Maxwell, others) 6									6	\$ 1,710		\$ -	\$ - \$	- \$ -	\$ -	\$ -	\$ -	\$ 1,710
2.2.10 2.2.11	GBRA and/or its Consultants 18 Other Utilities/Entities 6							<u> </u>		18 6	\$ 5,130 \$ 1,710		\$ -	\$ - \$ \$ - \$	- \$ -	\$ -	\$ -	\$ -	\$ 5,130 \$ 1,710
2.3	Alliance Water Executive Director coordination meetings 48 Alliance Water Technical Committee and Board Meetings 48	12	30 12			24	24	18		156 60	\$ 31,140 \$ 16,020	\$ 800 \$ 800		\$ 20,328 \$	- \$ 12,40	08 \$ -	\$ -	\$ 32,736	
2.5	PAC Meetings 30		12							30	\$ 8,550	\$ 400	\$ -	\$ 1,034 \$	- \$ -	\$ -	\$ -	\$ 1,034	\$ 9,984 Assumed meetings will be in person quarterly
2.6	Other ARWA Consulting Services - as part of Coor. Mtg. with ED. 5 Texas Commission on Environmental Quality - Meetings 4		5							10	\$ 2,400 \$ 1,140	\$ 200 \$ 100		\$ - \$ \$ 3,608 \$	- \$ -	\$ -	\$ - \$ -	\$ - \$ 3,608	\$ 2,600 \$ 4,848
	Texas Department of Transportation - Meetings 2									2	\$ 570	\$ 100	\$ -	\$ - \$	- \$ -	\$ -	\$ -	\$ -	\$ 670
2.9	Union Pacific Railroad - Meetings 2 Counties - Meetings 5									2	\$ 570 \$ 1,425	\$ 100 \$ 100		\$ - \$ \$ 858 \$	- \$ -	\$ -	\$ - \$ -	\$ - \$ 858	\$ 670 \$ 2,383
2.11	Cities - Meetings 5									5	\$ 1,425	\$ 100	\$ -	\$ - \$	- \$ -	\$ -	\$ -	\$ -	\$ 1,525
	Other Utilities/Entities - Meetings 5 Internal Program Monthly Meetings 48	18	36			24	24			5 150	\$ 1,425 \$ 32,010	\$ 500 \$ 800		\$ - \$ \$ 30,492 \$	- \$ - - \$ 10,34	\$ - 40 \$ -	\$ - \$ -	\$ - \$ 48,202	\$ 1,925 \$ 81,012
2.10		.0								100		\$		Φ 00,102 Φ	ψ 10,0				
3.1	Task 3 - Budgeting Perform Monthly Budget Updates 18		18							36	\$ 27,540 \$ 8,640	\$ -	\$ 63,635 \$ 58,080	\$ - \$ \$ - \$	- \$ - - \$ -	\$ - \$ -	\$ - \$ -	\$ 63,635 \$ 58,080	\$ 91,175 \$ 66,720
3.1.1	Track costs to the Phase 1B Program vs. the anticipated budget									0	\$ -		\$ -	\$ - \$	- \$ -	\$ -	\$ -	\$ -	\$ -
3.1.2 3.1.3	Coordinate with applicable parties to receive current OPCC data Identify budget deviations and coordinate with applicable parties									0	\$ - \$ -		\$ -	\$ - \$ \$ - \$	- \$ -	\$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -
3.2 3.2.1	Prepare Budget Updates 18 Executive Director (Monthly)		18							36 0	\$ 8,640		\$ - : \$ 5,555	\$ - \$ \$ - \$	- \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ 5,555	\$ 8,640 \$ 5,555
3.2.2	Alliance Water Board and Technical Committee (Quarterly)									0	\$ -		\$ 5,555	\$ - \$	- \$ -	\$ -	\$ -	\$ 5,555	\$ -
3.2.3 3.2.4	PAC (Quarterly) TWDB (Quarterly)									0	\$ -		\$ - :	\$ - \$	- \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ - \$
3.2.5	Public (Quarterly)									0	\$ -		\$ -	\$ - \$	- \$ -	\$ -	\$ -	\$ -	\$ -
3.3	Program Cost Evaluation 6		18				18 18			60	\$ 10,260		\$ -	\$ - \$	- \$ -	\$ -	\$ -	\$ -	\$ 10,260
	Task 4 - Schedule										\$ 11,240	\$ -	\$ 27,588	\$ - \$	- \$ -	\$ -	\$ -	\$ 27,588	\$ 38,828
4.1 4.1.1	Perform Monthly Schedule Updates 8 Coordinate with applicable parties to obtain current schedules		4							12 0	\$ 3,060 \$ -		\$ 27,588 S	\$ - \$ \$ - \$	- \$ - - \$ -	\$ - \$ -	\$ - \$ -	\$ 27,588 \$ -	\$ 30,648 \$ -
4.1.2	Identify schedule deviations and coordinate with applicable parties									0	\$ -		\$ -	\$ - \$	- \$ -	\$ -	\$ -	\$ -	\$ -
4.1.3 4.2	Special updates will be performed when critical info becomes known Prepare Schedule Updates 8		4							0 12	\$ - \$ 3,060		\$ - :	\$ - \$ \$ - \$	- \$ -	\$ -	\$ - \$ -	\$ - \$ -	\$ - \$ 3,060
4.2.1	Executive Director (Monthly) Alliance Water Board and Technical Committee (Quarterly)									0	\$ -		\$ -	\$ - \$	- \$ -	\$ -	\$ -	\$ -	\$ -
4.2.2 4.2.3	PAC (Quarterly)									0	\$ - \$ -		\$ - :	\$ - \$ \$ - \$	- \$ -	\$ -	\$ -	\$ -	\$ -
4.2.4 4.2.5	TWDB (Quarterly) Public (Quarterly)									0	\$ - \$ -		\$ - :	\$ - \$ \$ - ¢	- \$ -	\$ - \$	\$ - \$ -	\$ - \$ -	\$ - \$ -
4.2.5	Program Schedule Evaluation 6		6				8 8			28	\$ 5,120		\$ - :	<u> </u>	- \$ -	\$ -	\$ -	\$ -	\$ 5,120
	Task 5 - Reporting										\$ 44,890	9	\$	s _ c	. e	\$	\$	9	\$ 44,890
5.1	Prepare Monthly Progress Reports 24		12				12 12			60	\$ 12,540	-	\$ -	\$ - \$	- \$ -	\$ -	\$ -	\$ -	\$ 44,890 \$ 12,540
5.2 5.2.1	Prepare Progress Updates (ED., ARWA, TWDB, Public) Executive Director (Weekly Summary and Monthly Report) 12		12				12 12			0 48	\$ - \$ 9,120		\$ - :	\$ - \$ \$ - ¢	- \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ 9,120
5.2.2 5.2.3	Alliance Water Board and Committees (Monthly) 18		12				12 12			54	\$ 10,830		\$ -	\$ - \$	- \$ -	\$ -	\$ -	\$ -	\$ 10,830
5.2.3 5.2.4	PAC (Monthly) 12 TWDB (Quarterly)		12				6 6			36 0	\$ 7,440 \$ -		\$ - :	\$ - \\$ \$ - \\$	- \$ - - \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ 7,440 \$ -
5.2.5	Public (Quarterly) 8		8				4 4			24	\$ 4,960		\$ -	\$ - \$	- \$ -	\$ -	\$ -	\$ -	\$ 4,960
	Task 6 - Data Management										\$ 55,215	\$ 8,000	\$ 24,750	s - s	- \$ -	\$ -	\$ -	\$ 24,750	\$ 87,965
	Overall Data Management 3		24			36				63	\$ 10,755		\$ 24,750	\$ - \$	- \$ -	\$ -	\$ -	\$ 24,750	
6.1.1 6.1.2	Perform admin. Support functions for overall project record keeping Enter information into applicable data management system									0	\$ - \$ -		\$ - :	\$ - \$ \$ - \$	- \$ - - \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -
6.1.3	Distribute updated contract documents									0	\$ -		\$ -	\$ - \$	- \$ -	\$ -	\$ -	\$ -	\$ -
6.1.4 6.1.5	Prepare, manage, record, distribute and archive documentation Log receipt of all documents and inquiries requiring a response									0	\$ - \$ -		\$ - :	\$ - \\$ \$ - \\$	- \$ - - \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -
6.1.6	Review supporting documents for conformance with PMP									0	\$ -		\$ -	\$ - \$	- \$ -	\$ -	\$ -	\$ -	\$ -
6.1.7 6.1.8	Maintain project records Maintain change management logs, RFI logs, RFP logs, Submittal logs							+		0	\$ - \$ -		\$ - :	\$ - \\$ \$ - \\$	- \$ - - \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -
6.1.9	Perform internal audits for quality assurance of overall documents									0	\$ -		\$ -	I	- \$ -	\$ -	\$ -	\$ -	\$ -
6.2 6.2.1	Microsoft SharePoint Perform ongoing data management of documents within SharePoint 3				24	24 48				0 99	\$ - \$ 15,735	\$ 2,000	\$ - :	\$ - \\$ \$ - \\$	- \$ - - \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ 17,735
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				1		Detailed Overall Kimley-	Horn Cos	st Breakdown													
Task				1			Sc	ope of Services							ı		1			ı	
Task		QA/QC / Senior	Senior Tech.			CADD Operator /	Engineer-in-	Engineer-in-	Administrative		Total Labor	Total	Foster CM								
	Project Role	Mngr / Principal	Avis / Deputy Prj Senior Engineer Mngr	r GIS Specialist	Civil Engineer	IT Professional GIS Developer Operator / Senior Technician	Training II	Training I GIS Analyst	Staff / Technician	Total Hours	Effort	Expense Effort	Group	CP&Y	Grubb	Spitzer	RVK	V&A	Total Sub Effort	Total Effort	Assumptions
6.3	Hourly Bill Rate Interactive Web-based GIS	\$285.00	\$235.00 \$195.00	\$180.00	\$175.00	\$155.00 \$170.00 \$145.00	\$150.00	\$130.00 \$135.00	\$95.00	0	e -		e - 2	e _ e		¢ .	e	e -	¢ -	e .	
6.3.1	Perform ongoing incorporation of data within ArcGIS	3		12	12	12 12	24	24		99 :	\$ 15,615	\$ 5,000	\$ -	\$ - 9	-	\$ -	\$ - 5	\$ -	\$ -	\$ 20,615	
6.4 6.4.1	Coordination with CMI Team regarding GPS Collected Data Coordinate with CMI Team regarding GIS site	3	12				12	12		39	\$ - \$ 6,555		\$ - \$ -	\$ - \$ \$ - \$	-	\$ - \$ -	\$ - 5	\$ - \$ -	\$ -	\$ - \$ 6,555	
6.4.2 6.5	Review data loaded by CMI Team on a monthly basis Deliverables	3	12				12	12		39	\$ 6,555 \$ -		\$ -	\$ - \$ \$ - \$	-	\$ -	\$ - 5	\$ - \$ -	\$ - \$ -	\$ 6,555	
6.5.1	Hard copy deliverable to be provided to Alliance Water									0 :	\$ -	\$ 1,000	\$ -	\$ - 9	-	\$ -	\$ - 5	\$ -	\$ -	\$ 1,000	
6.5.1.1 6.5.1.2	Meeting Agendas Program status reports									0 :	\$ - \$ -		\$ -	\$ - \$ \$ - \$	-	\$ -	\$ - 5	\$ - \$ -	\$ -	\$ -	
6.5.1.3 6.5.1.4	Copies of the PMP Exhibits									0 :	\$ - \$ -		\$ - \$ -	\$ - \$ \$ - \$	-	\$ - \$ -	\$ - 5	\$ - \$ -	\$ - \$ -	\$ - \$ -	
0.5.1.4										· ·	*		Ψ -	· ·	_	Ψ -	Ψ -	φ -	Ψ -	·	
7.1	Task 7 - Environmental Management Perform regular coordination with Env. Cons.	10	4							14	\$ 7,620 \$ 3,630	\$ -	\$ - \$ -	\$ 55,176 \$ \$ 18,150 \$	-	\$ - \$ -	\$ - S	\$ - \$ -	\$ 55,176 \$ 18,150	\$ 62,796 \$ 21,780	
7.2 7.2.1	Ongoing agency coordination United States Army Corps of Engineers (USACE)									0 :	\$ - \$ -		\$ -	\$ - \$ \$ 2,904 \$	-	\$ -	\$ - 5	\$ - \$ -	\$ - \$ 2,904	\$ -	
7.2.2	Texas Parks and Wildlife Department (TPWD)									0	\$ -		\$ -	\$ 363 \$	-	\$ -	\$ - 5	\$ -	\$ 363	\$ 363	
7.2.3 7.3	Local floodplain administrators Assist with the review of Env. Cons. monthly invoices	4		-						4 :	\$ - \$ 1,140		\$ - \$ -	\$ - \$ \$ 2,178 \$	-	\$ - \$ -	\$ - 5	\$ - \$ -	\$ - \$ 2,178	\$ - \$ 3,318	
7.4	Continuous tracking of Env. Cons. Scope of work & amendments Perform as-needed site visits with Env Cons. during Field Study	6								6	\$ 1,710 \$ -		\$ - \$ -	\$ 2,904 \$ \$ 1,452 \$	-	\$ - \$ -	\$ - 5	\$ - \$ -	\$ 2,904 \$ 1,452	\$ 4,614	
7.6	Coordinated site visits with those identified in Task 8 and 11									0 :	\$ -		\$ -	\$ 363 \$	-	\$ -	\$ -	\$ -	\$ 363	\$ 363	
7.7 7.7.1	Review and comment on Environmental Permitting Documents USACE	2								0 :	\$ 570 \$ -		\$ -	\$ - \$ \$ 4,356 \$	-	\$ - \$ -	\$ - 5	\$ - \$ -	\$ - \$ 4,356		
7.7.2 7.7.3	TPWD United States Fish and Wildlife Service (USFWS)									0 :	\$ - \$ -		\$ - \$ -	\$ 726 S \$ 726 S	-	\$ - \$ -	\$ - 5	\$ - \$ -	\$ 726 \$ 726	\$ 726	
7.7.4	Texas Historical Commission (THC)	_								0 :	\$ -		\$ -	\$ 2,178 \$	-	\$ -	\$ - 3	\$ -	\$ 2,178	\$ 2,178	
7.9	Review and comment on TWDB deliverables by Env. Cons. Other Environmental Services as defined by Alliance Water	2								0 :	\$ 570 \$ -		\$ -	\$ 8,712 \$ \$ 7,260 \$		\$ -	\$ - 5	\$ - \$ -	\$ 8,712 \$ 7,260	\$ 7,260	
7.10	Environmental Agency meetings (USACE, USFWA, TPWD, THC) Environmental Consultant Team progress meetings									0 :	\$ - \$ -		\$ - \$ -	\$ 1,089 \$ \$ 1,815 \$	-	\$ - \$ -	\$ - S	\$ - \$ -	\$ 1,089 \$ 1,815		
	. 0										*		•	- 1,010	-	•	- '				
8.1	Task 8 - Land Acquisition Management Perform regular coordination with Ld. Acq. Cons.	48			48					96	\$ 48,120 \$ 22,080	\$ -	\$ - \$ -	\$ - \$ \$ - \$	-	\$ 411,169 \$ 266,750	\$ - 5	\$ - \$ -	\$ 411,169 \$ 266,750		
8.2 8.3	Assist with the review of Ld. Acq. Cons. monthly invoices Continuous tracking of Land Acq. Scope of work & amendments	12								0 12	\$ - \$ 3,420		\$ -	\$ - 9 \$ - 9	-	\$ 4,235 \$ 2,585	\$ - 5	\$ - \$ -	\$ 4,235 \$ 2,585	\$ 4,235 \$ 6,005	
8.4	Review land acquisition data for conformance to the PMP/RAMP	12								0 :	\$ -		\$ -	\$ - \$	-	\$ 11,704	\$ - 5	\$ -	\$ 11,704	\$ 11,704	
8.5 8.6	Perform as-needed site visits with Ld. Acq. Cons. Coordinated site visits with those identified in Task 7 and 11									0 :	\$ - \$ -	:	\$ - \$ -	\$ - \$ \$ - \$	-	\$ 1,293 \$ 2,063	\$ - 5	\$ - \$ -	\$ 1,293 \$ 2,063	\$ 2,063	
8.7 8.8	Review and comment on TWDB land acquisition deliverables Coord. with landowners to facilitate access for Consultants for field work	12			12					24 :	\$ 5,520 \$		\$ - \$ -	\$ - \$ \$ - \$	-	\$ 6,793 \$ 7,453	\$ - 5	\$ - \$ -	\$ 6,793 \$ 7,453	\$ 12,313 \$ 7,453	
8.9	Assist in resolution of title issues									0	\$ -		\$ -	\$ - \$	-	\$ 86,900	\$ - 5	\$ -	\$ 86,900	\$ 86,900	
8.10 8.11	Weekly Mtg with Alliance Water and Special Counsel Other Ld. Acq. services as identified and assigned by Alliance Water	36 24								36 24	\$ 10,260 \$ 6,840		\$ - \$ -	\$ - \$ \$ - \$	-	\$ 13,442 \$ -	\$ - 5	\$ - \$ -	\$ 13,442 \$ -	\$ 23,702 \$ 6,840	
8.12	Land Acq. Team progress meetings Task 9 - Texas Water Development Board Management									0	\$ - \$ 9,690	S -	\$ - \$ -	\$ - \$ \$ 60,665	-	\$ 3,300	\$ - S	\$ - \$ -	\$ 3,300 \$ 60,665	\$ 3,300 \$ 70,355	
9.1	Identify milestone deliverables and provide feedback on CP schedule Review TWDB deliverables for conformance to TWDB requirements	40								0 18	\$ -		\$ -	\$ 7,755 \$ \$ 23,513 \$	-	\$ -	\$ - 5	\$ -	\$ 7,755	\$ 7,755	
9.2	Perform regular coordination with the TWDB to discuss ongoing actions	18 8								8 :	\$ 5,130 \$ 2,280		\$ -	\$ 11,908 \$	-	\$ -	\$ - 5	\$ -	\$ 23,513 \$ 11,908	\$ 28,643 \$ 14,188	
9.4 9.5	Prepare fund release request letters for submission to TWDB TWDB progress meeting	8								8 :	\$ - \$ 2,280		\$ - \$ -	\$ 8,580 \$ \$ 8,910 \$	-	\$ - \$ -	\$ - S	\$ - \$ -	\$ 8,580 \$ 8,910	\$ 8,580 \$ 11,190	
	Task 10 - Design Standards Updates										\$ 25,050	e .	c	¢ 0		¢	•	\$ 16,944	\$ 16,944	\$ 41,994	
	Development of Design Standards, Specifications, and Details									0	\$ -	<u>э</u> -	\$ -	\$ - 9	-	\$ -	\$ -	\$ -	\$ -	\$ -	
10.1.1 10.1.2	Transmission Pipelines and Delivery Points Design Stds Finalize Preparation of Standard Specifications for Const Finalize	5	5		5		3 5	5		12 25	\$ 2,220 \$ 4,875		\$ - \$ -	\$ - \$ \$ - \$	-	\$ - \$ -	\$ - S	\$ - \$ -	\$ - \$ -	\$ 2,220 \$ 4,875	
10.1.3	Preparation of Standard Details - Finalize Pipeline Corrosion Protection Standards	5	5		5		5	5		25 10	\$ 4,875 \$ 2,400		\$ -	\$ - \$	-	\$ - \$	\$ - 5	\$ - \$ 16,944	\$ - \$ 16,944	\$ 4,875	
10.1.5	Telemetry, Instrumentation & Controls, SCADA, and Security Standards	2	J J							2	\$ 2,400		\$ -	\$ - 9	-	\$ -	\$ - 5	\$ -	\$ -	\$ 19,344	
10.1.5.1 10.1.5.2	Fiber Optic Standards SCADA Standards									0 :	\$ - \$ -	1	\$ - \$ -	\$ - \$ \$ - \$	-	\$ - \$ -	\$ - 5	\$ - \$ -	\$ - \$ -	\$ -	
10.1.5.3 10.1.5.4										0 :	\$ - \$ -		\$ -	\$ - \$ \$ - \$	-	\$ - \$	\$ - 5	\$ - \$	\$ - \$ -	\$ -	
10.1.6	Facility General Electrical Standards	2								2	\$ 570		\$ -	\$ - 9	-	\$ -	\$ - 5	\$ -	\$ -	\$ 570	
	Master Specifications - Finalize Record Drawings (Plans & GIS)	4	6		10		15	15		50	\$ 1,040 \$ 8,500		\$ -	\$ - \$ \$ - \$		\$ -	\$ - 5	\$ - \$ -	\$ - \$ -	\$ 1,040 \$ 8,500	
10.4	Address comments from Design Consultant Teams and Finalize Standards Review Meeting									0 :	\$ - \$ -		\$ - \$ -	\$ - S	-	\$ - \$ -	\$ - S	\$ - \$ -	\$ - \$ -	\$ - \$ -	
											*		•	Ì	-	-	- '	-	T		
11.1	Task 11 - Engineering Design Management Management and Coordination of Hydrogeology/Well Drilling									0	\$ 132,760 \$ -	\$ -	\$ -	\$ 76,274 \$ \$ - \$	-	\$ -	\$ - 5	\$ -	\$ 76,274 \$ -	\$ 209,034 \$ -	
	Identify early actions required Assist with the development and review of project scope for the DC									0 :	\$ - \$ -		\$ - \$ -	\$ - \$ \$ - \$	-	\$ - \$ -	\$ - S	\$ - \$ -	\$ - \$ -	\$ - \$ -	
	Assist with the review of proposed LOE developed by the DC									0 :	\$ -		\$ -	\$ - 9	-	\$ -	\$ -	\$ -	\$ -	\$ -	
	Assist with the review of Design Consultants monthly invoices Perform regular coordination with the DC to discuss ongoing tasks									0 :	\$ - \$ -		\$ -	\$ - \$ \$ - \$	-	\$ -	\$ -	\$ - \$ -	\$ -	\$ -	
	Perform as-needed site visits with Design Consultants Review/Comment on TWDB EFR deliverables prepared by DC									0 :	\$ - \$ -		\$ - \$ -	\$ - \$ \$ - \$	- -	\$ - \$ -	\$ - S	\$ - \$ -	\$ - \$ -	\$ - \$ -	
	Review/Comment on milestone submittals prepared by DC									0	\$ -		\$ -	\$ - \$	-	\$ -	\$ -	\$ -	\$ -	\$ -	
	Review/Comment on OPCC's prepared by DC Other Design-related services as assigned by Alliance Water									0 :	\$ - \$ -		\$ -	\$ - \$ \$ - \$	-	\$ - \$ -	\$ - 5	\$ - \$ -	\$ - \$ -	\$ - \$ -	
11.2	Management and Coordination of Well Pumps and Raw Water Inf. Identify early actions required									0 :	\$ - \$ -		\$ - \$ -	\$ - \$ \$ - \$	-	\$ - \$ -	\$ - S	\$ - \$ -	\$ - \$ -	\$ - \$ -	
	Assist with the development and review of project scope for the DC									0 :	\$ -		\$ -	\$ - \$	-	\$ -	\$ -	\$ -	\$ -	\$ -	
	Assist with the review of proposed LOE developed by the DC Assist with the review of Design Consultants monthly invoices	8					4			12	\$ - \$ 2,880		\$ -	\$ - \$ \$ 1,287 \$	-	\$ -	\$ - 5	\$ - \$ -	\$ - \$ 1,287	\$ - \$ 4,167	
	Perform regular coordination with the DC to discuss ongoing tasks Perform as-needed site visits with Design Consultants	4								4 0	\$ 1,140 \$ -		\$ - \$ -	\$ - \$ \$ - \$	-	\$ - \$ -	\$ - 5	\$ - \$ -	\$ - \$ -	\$ 1,140 \$ -	
	Review/Comment on TWDB EFR deliverables prepared by DC									0 :	\$ -		\$ -	\$ - \$	· -	\$ -	\$ -	\$ -	\$ -	\$ -	
	Review/Comment on milestone submittals prepared by DC Review/Comment on OPCC's prepared by DC									0 :	\$ - \$ -		\$ - \$ -	\$ - \$ \$ - \$	-	\$ - \$ -	\$ - 5	\$ - \$ -	\$ - \$ -	\$ - \$ -	
	Other Design-related services as assigned by Alliance Water			İ						0 :	\$ -		\$ -	\$ - 9	-	\$ -	\$ - 5	\$ -	\$ -	\$ -	

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Tuon	Project Role	QA/QC / Senior		per GIS Specialist	t Civil Engineer	IT Professional GIS Developer CADD Operator / Senior	Engineer-in-	Engineer-in-	GIS Analyst	Administrative Staff /	Total Hours	Total Labor	Total Expense	Foster CM	CP&Y	Grubb	Spitzer	RVK	V&A	Total Sub Effort	Total Effort	Assumptions
	·	Wingi / Frincipal	Mngr			Technician	Training II			Technician			Effort	Group	0	0.000	Оридо				10.0.1	, coumptions
11.3	Management and Coordination of WTP and HSPS	\$285.00	\$235.00 \$195.0	\$180.00	\$175.00	\$155.00 \$170.00 \$145.00	\$150.00	\$130.00	\$135.00	\$95.00	0	\$ -		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
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	Assist with the review of proposed LOE developed by the DC										0	\$ -		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
	Assist with the review of Design Consultants monthly invoices Perform regular coordination with the DC to discuss ongoing tasks	12 6					4				16 6	\$ 4,020 \$ 1,710		\$ - \$ -	\$ 1,551 \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ 1,551 \$ -	\$ 5,571 \$ 1,710	
	Perform as-needed site visits with Design Consultants Review/Comment on TWDB EFR deliverables prepared by DC										0	\$ -		\$ -	\$ - ¢ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
	Review/Comment on milestone submittals prepared by DC										0	\$ -		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
	Review/Comment on OPCC's prepared by DC Other Design-related services as assigned by Alliance Water										0	\$ - \$ -		\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	
11.4	Management and Coordination of Transmission Pipeline (5 Contracts) Identify early actions required										0	\$ -		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
	Assist with the development and review of project scope for the DC	4	9								13	\$ 2,895		\$ -	\$ 1,716	\$ -	\$ -	\$ -	\$ - \$ -	\$ 1,716	\$ 4,611	
	Assist with the review of proposed LOE developed by the DC Assist with the review of Design Consultants monthly invoices	4 36	9 48								13 84	\$ 2,895 \$ 19,620		\$ - \$ -	\$ 858 \$ 2,574	\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ 858 \$ 2,574	\$ 3,753 \$ 22,194	
	Perform regular coordination with the DC to discuss ongoing tasks	10	40								50	\$ 10,650		\$ -	\$ 39,171	\$ -	\$ -	\$ -	\$ -	\$ 39,171	\$ 49,821	
	Perform as-needed site visits with Design Consultants Review/Comment on TWDB EFR deliverables prepared by DC										0	\$ - \$ -		\$ -	\$ - \$ 3,432	\$ - \$ -	\$ -	\$ -	\$ - \$	\$ - \$ 3,432		
	Review/Comment on milestone submittals prepared by DC Review/Comment on OPCC's prepared by DC	6	6	T							12	\$ 2,880 \$ 960		\$ - \$ -	\$ 8,580 \$ 1,716	\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ 8,580 \$ 1,716	\$ 11,460	
	Other Design-related services as assigned by Alliance Water	12	24								36	\$ 8,100		\$ -	\$ 5,324	\$ -	\$ -	\$ -	\$ -	\$ 5,324		
11.5	Management and Coordination of Admin. Building and Ops. Center Identify early actions required				1						0	\$ - \$ -		\$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	
	Assist with the development and review of project scope for the DC										0	\$ -		\$ -	\$ - \$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
	Assist with the review of proposed LOE developed by the DC Review and provide comments on the PMP prepared by the DC										0	\$ -		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
	Assist with the review of Design Consultants monthly invoices Perform regular coordination with the DC to discuss ongoing tasks				1						0	\$ - \$ -		\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	
	Perform initial windshield survey to review the overall Phase 1B projects										0	\$ -		\$ -	\$ - \$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
	Perform as-needed site visits with Design Consultants Review/Comment on TWDB EFR deliverables prepared by DC										0	\$ -		\$ -	\$ - \$ -	\$ - \$ -	\$ -	\$ -	\$ - \$ -	\$ - \$ -	\$ -	
	Review/Comment on milestone submittals prepared by DC Review/Comment on OPCC's prepared by DC										0	\$ - \$ -		\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	
	Other Design-related services as assigned by Alliance Water										0	\$ -		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
11.6	Management and Coordination of BPS & Delivery Points Identify early actions required										0	\$ - \$ -		\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ -	\$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	
	Assist with the development and review of project scope for the DC Assist with the review of proposed LOE developed by the DC										0	\$ - \$ -		\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ -	
	Assist with the review of Design Consultants monthly invoices	12					6				18	\$ 4,320		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,320	
	Perform regular coordination with the DC to discuss ongoing tasks Perform as-needed site visits with Design Consultants	6									6	\$ 1,710 \$ -		\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ -	\$ -	\$ - \$ -	\$ - \$ -	\$ 1,710 \$ -	
	Review/Comment on TWDB EFR deliverables prepared by DC Review/Comment on milestone submittals prepared by DC										0	\$ - \$ -		\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ -	
	Review/Comment on OPCC's prepared by DC										0	\$ -		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
11.7	Other Design-related services as assigned by Alliance Water Management and Coordination of Elevated Storage Tanks										0	\$ - \$ -		\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ -	\$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	
	Identify early actions required Assist with the development and review of project scope for the DC	2	4								0	\$ - \$ 1,350		\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ 1,350	
	Assist with the review of proposed LOE developed by the DC	2	4								6	\$ 1,350		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,350	
	Assist with the review of Design Consultants monthly invoices Perform regular coordination with the DC to discuss ongoing tasks	12	24								36 24	\$ 8,100 \$ 4,680		\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ -	\$ -	\$ - \$ -	\$ - \$ -	\$ 8,100 \$ 4,680	
	Perform as-needed site visits with Design Consultants Review/Comment on TWDB EFR deliverables prepared by DC		5								5	\$ 975 \$		\$ -	\$ - \$ -	\$ - ¢ -	\$ -	\$ -	\$ -	\$ -	\$ 975	
	Review/Comment on milestone submittals prepared by DC	8	12								20	\$ 4,620		\$ -	\$ 3,960	\$ -	\$ -	\$ -	\$ -	\$ 3,960	· · · · · · · · · · · · · · · · · · ·	
	Review/Comment on OPCC's prepared by DC Other Design-related services as assigned by Alliance Water	12	12		<u> </u>						4 24	\$ 960 \$ 5,760		\$ - \$ -	\$ - \$ 3,960	\$ - \$ -	\$ -	\$ -	\$ - \$ -	\$ - \$ 3,960	\$ 960 \$ 9,720	
11.8	Management and Coordination of Program Survey Identify early actions required										0	\$ - \$ -		\$ - \$ -	\$ - \$ -	\$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ -	
	Assist with the development and review of project scope for the DC										0	\$ -		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
	Assist with the review of proposed LOE developed by the DC Assist with the review of Design Consultants monthly invoices	6	6		1						0 12	\$ - \$ 2,880		\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ 2,880	
	Perform regular coordination with the DC to discuss ongoing tasks Perform as-needed site visits with Design Consultants	3	3								6	\$ 1,440 \$ -		\$ - \$ -	\$ - \$ -	\$ - \$	\$ - \$	\$ - \$	\$ -	\$ - \$ -	\$ 1,440	
	Review/Comment on TWDB EFR deliverables prepared by DC										0	\$ -		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
	Review/Comment on milestone submittals prepared by DC Review/Comment on OPCC's prepared by DC	2	2		4						8 0	\$ 1,660 \$ -		\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ -	\$ - \$ -	\$ - \$ -	\$ 1,660 \$ -	
11.9	Other Design-related services as assigned by Alliance Water Commissioning Planning	1 30	2 60		2		25	25			5 140	\$ 1,025 \$ 27,250		\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ - \$	\$ - \$ -	\$ - \$ -	\$ 1,025 \$ 27,250	
11.10	Consultant Design Teams progress meetings	30	60				20	20			0	\$ -		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 27,250	
11.10.1 11.10.2	Hydrogeology / Well Drilling Raw Water Facilities				1						0	\$ - \$ -		\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	
11.10.3	WTP / HSPS Pipelines	2	6								0 8	\$ - \$ 1,740		\$ - \$ -	\$ - \$ 2,145	\$ - \$ -	\$ -	\$ -	\$ - \$ -	\$ - \$ 2,145	\$ - \$ 3,885	
11.10.5	Administrative Building and Operations Center		0								0	\$ -		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,145	\$ 3,885	
11.10.6 11.10.7	BPS & Delivery Points Elevated Storage Tanks	6	12		1						0 18	\$ - \$ 4,050		\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ -	\$ - \$ -	\$ - \$ -	\$ - \$ 4,050	
11.10.8	Program Survey	4									4	\$ 1,140		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,140	
	Task 12 - Quality Assurance											\$ 6,600 \$	-	\$ -	\$ 1,540	\$ -	\$ -	\$ -	\$ -	\$ 1,540		
	Review the QA/QC Plans prepared by the Consultants based on PMP Perform regular coordination with all Consultants on QA/QC imp.	1	5 2 5 2		2 2						10 10	\$ 2,200 \$ 2,200		\$ - \$ -	\$ - \$ 770	\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ 770	\$ 2,200 \$ 2,970	
	Review/Receive QA/QC documentation from Consultants	1	5 2		2						10	\$ 2,200		\$ -	\$ 770	\$ -	\$ -	\$ -	\$ -	\$ 770 \$ 770	\$ 2,970	
	Task 13 - Electrical Power Planning											\$ 3,420 \$	-	\$ -	\$ -	\$ 26,763	\$ -	\$ -	\$ -	\$ 26,763		
	Perform Prelim. Analyses to determine approx. demand and energy Develop a strategy for cont., gathering system quality, and reliability data	3									3	\$ - \$ 855		\$ - \$ -	\$ - \$ -	\$ 3,366 \$ 2,327	\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ 3,366 \$ 2,327		
13.3	Coordination with Electrical Service Providers to evaluate costs Assist Alliance Water with negotiations on the electrical supply agr.	-			1						0	\$ -		\$ -	\$ -	\$ 5,693 \$ 7,986	\$ -	\$ -	\$ -	\$ 5,693 \$ 7,986	\$ 5,693	
13.5	Assist Alliance Water by defining special equipment needs	3									3	\$ 855		\$ -	\$ - \$ -	\$ 2,112	\$ -	\$ -	\$ -	\$ 2,112	\$ 2,967	
13.6	Alliance Water and Electrical Service Providers Coord. Meetings	6			1						6	\$ 1,710		\$ -	\$ -	\$ 5,280	\$ -	\$ -	\$ -	\$ 5,280	\$ 6,990	

	Own		Regional Water Authority / Program Management (Wo	ark Order No. 6)											e Summary \$ 1,989,091	
	Ow	ner's Representative	2/4/2022	ork Order No. 6)										Total Effort	\$ 1,989,091	
		Detailed Over	all Kimley-Horn Cost Breako	lown												
			Scope of Sc	ervices												
Task							Total									
Project Role QA/QC / Senio	r Senior Tech. Avis / Deputy Prj Senior Engineer GIS Specialist Civil Engineer	IT Professional GIS Developer	Operator / Engineer-in- Senior Training II Training I		Total Hou	Total Labor Effort	Expense	Foster CM Group	CP&Y	Grubb	Spitzer	RVK	V&A	Total Sub Effort	Total Effort	Assumptions
	\$235.00 \$195.00 \$180.00 \$175.00			recrinician		Liioit	Effort	Croup								
Task 14 - Permit Coordination/Tracking 14.1 Perform regular coordination with Consultants 2					2	\$ 4,95 \$ 57		\$ -	\$ 43,560 \$ 1,716	\$ -	\$ -	\$ -	\$ -	\$ 43,560 \$ 1,716	\$ 48,510 \$ 2,286	
14.2 Incorporate permit updates from Consultants into master tracking list 2 14.3 Management of Permit Submittal 6	12				2 18	\$ 57 \$ 3,81		\$ -	\$ 3,960	\$ -	\$ -	\$ -	\$ - \$ -	\$ 3,960 \$ -	\$ 4,530 \$ 3,810	
14.3.1 TCEQ	12				0	\$ 3,61	0	\$ -	\$ 29,304	\$ -	\$ -	\$ -	\$ -	\$ 29,304	\$ 29,304	
14.3.2 TxDOT – Design Consultants 14.3.3 UPRR					0	\$ - \$ -		\$ - \$ -	\$ 5,148	\$ - \$ -	\$ -	\$ - \$ -	\$ - \$ -	\$ 5,148 \$ -	\$ 5,148 \$ -	
14.3.4 Counties (Hays, Caldwell, Guadalupe)					0	\$ -		\$ -	\$ 1,716	\$ -	\$ -	\$ -	\$ -	\$ 1,716	\$ 1,716	
14.3.5 Cities (Kyle, San Marcos, Uhland, Lockhart, Maxwell, others) 14.3.6 Private utilities					0	\$ - \$ -		\$ -	\$ - \$ 1,716	\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ 1,716	\$ - \$ 1,716	
						• 110.00				•	•		•			
Task 15 - Procurement and Construction Phase Services						\$ 118,62	0 \$ -	\$ -	\$ 181,863	\$ -	\$ -	\$ -	\$ -	\$ 181,863	\$ 300,483	
15.1 Management and Coordination of Hydrogeology/Well Drilling Procurement Services					0	\$ - \$ -		\$ - \$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ - \$ -	
Pre-Proposal Meeting					0	\$ -		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Addenda Review Proposal Evaluation and Recommendation					0	\$ - \$ -		\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	
Committee and Board Items					0	\$ -		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Execution of Contract Construction Phase Services					0	\$ -	1	\$ -	\$ -	\$ -	\$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	
Administration					0	\$ -		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Preconstruction Meetings Monthly Construction Meetings					0	\$ - \$ -		\$ -	\$ -	\$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	
Construction Activities Submittals					0	\$ - \$ -		\$ -	\$ -	\$ - \$	\$ - \$	\$ - \$	\$ - \$ -	\$ - \$ -	\$ - \$ -	
Substitutions					0	\$ -		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Request for Information Pay Request					0	\$ - \$ -		\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	
Defective Work					0	\$ -		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Change Orders Record Drawings					0	\$ - \$ -		\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	
Commissioning					0	\$ -		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Substantial Completion Final Walkthrough					0	\$ -		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ - \$ -	
Warranty Walkthrough 15.2 Management and Coordination of Well Pumps and Raw Water Inf.					0	\$ - \$ -		\$ - \$ -	\$ -	\$ -	\$ -	\$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	
Procurement Services					0	\$ -		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Pre-Proposal Meeting Addenda Review					0	\$ - \$ -		\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	
Proposal Evaluation and Recommendation					0	\$ -		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Committee and Board Items Execution of Contract					0	\$ -		\$ - \$ -	\$ -	\$ -	\$ -	\$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	
Construction Phase Services Administration 5					0	\$ - \$ 1,42	-	\$ - \$ -	\$ - \$ 1,716	\$ -	\$ -	\$ -	\$ - \$ -	\$ - \$ 1,716	\$ - \$ 3,141	
Preconstruction Meetings					0	\$ -		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Monthly Construction Meetings 2 Construction Activities					2	\$ 57 \$ -	0	\$ - \$ -	\$ 2,574	\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ 2,574	\$ 3,144 \$ -	
Submittals 3					3	\$ 85	5	\$ -	\$ 13,651	\$ -	\$ -	\$ -	\$ -	\$ 13,651	\$ 14,506	
Substitutions Request for Information 3					3	\$ -	5	\$ -	\$ - \$ 4,290	\$ - \$ -	\$ -	\$ - \$ -	\$ - \$ -	\$ - \$ 4,290	\$ - \$ 5,145	
Pay Request 3 Defective Work					3	\$ 85		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ - \$ 4,070	\$ 855 \$ 4,070	
Change Orders 3					3	\$ 85	5	\$ -	\$ 4,070 \$ 5,412	\$ -	\$ -	\$ -	\$ - \$ -	\$ 4,070 \$ 5,412		
Record Drawings Commissioning					0	\$ - \$ -		\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	
Substantial Completion					0	\$ -		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Final Walkthrough Warranty Walkthrough					0	\$ - \$ -		\$ - \$ -	\$ - \$ -	\$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	
15.3 Management and Coordination of WTP and HSPS					0	\$ -		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Procurement Services Pre-Proposal Meeting					0	\$ -		\$ -	\$ - \$ -	\$ -	\$ -	\$ - \$ -	\$ - \$ -	\$ -	\$ - \$ -	
Addenda Review Proposal Evaluation and Recommendation					0	\$ - \$ -		\$ - \$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ - \$ -	
Committee and Board Items					0	\$ -		\$ -	\$ -	\$ -	\$ -	\$ -	\$ - \$ -	\$ -	\$ -	
Execution of Contract Construction Phase Services					0	\$ - \$ -	1	\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	
Administration 10					10	\$ 2,85	0	\$ -	\$ 3,861	\$ -	\$ -	\$ -	\$ -	\$ 3,861	\$ 6,711	
Preconstruction Meetings Monthly Construction Meetings 2					2	\$ - \$ 57	0	\$ -	\$ - \$ 3,861	\$ -	\$ - \$ -	\$ - \$ -	\$ -	\$ - \$ 3,861	\$ - \$ 4,431	
Construction Activities					0	\$ -		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Submittals 5 Substitutions					5	\$ 1,42 \$ -		\$ -	\$ 24,068 \$ 5,148	\$ -	\$ -	\$ - \$ -	\$ - \$ -	\$ 24,068 \$ 5,148		
Request for Information 5 Pay Request 5					5	\$ 1,42 \$ 1,42	5	\$ - \$ -	\$ 6,688 \$ -	\$ -	\$ -	\$ - \$ -	\$ - \$ -	\$ 6,688 \$ -		
Defective Work					0	\$ -		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Change Orders 5 Record Drawings					5	\$ 1,42 \$ -		\$ - \$ -	\$ 6,534 \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ 6,534 \$ -	\$ 7,959 \$ -	
Commissioning					0	\$ -		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Substantial Completion Final Walkthrough					0	\$ -	1	\$ - \$ -	\$ - \$ -	\$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	
Warranty Walkthrough					0	\$ -	1	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
15.4 Management and Coordination of Transmission Pipeline (5 Contracts) Procurement Services					0	\$ - \$ -		\$ - \$ -	\$ -	\$ -	\$ -	\$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	
Pre-Proposal Meeting 10 Addenda Review 10	9 9				19 19	\$ 4,60 \$ 4,60		\$ - \$ -	\$ 1,716 \$ 3,432	\$ -	\$ -	\$ - \$ -	\$ - \$ -	\$ 1,716 \$ 3,432		
Proposal Evaluation and Recommendation 15					15	\$ 4,27	5	\$ -	\$ 858		\$ -	\$ -	\$ -	\$ 858	\$ 5,133	
Committee and Board Items 10 Execution of Contract 5	6 20				16 25	\$ 4,02 \$ 5,32		\$ - \$ -	\$ 858 \$ 1,716	\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ 858 \$ 1,716		
Construction Phase Services					0	\$ -		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Administration 20 Preconstruction Meetings 4	20 6				40 10	\$ 9,60 \$ 2,31		\$ - \$ -	\$ 7,392 \$ 1,716	\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ 7,392 \$ 1,716		
7	· · · · · · · · · · · · · · · · · · ·	-							,						,020	

Alliance Regional Water Authority Project Fee Summary																			
			Own		e Regional Water Authority / Program Management (Wo	rk Order No. 6)												\$ 1,989,091	
				Detailed Over	2/4/2022 all Kimley-Horn Cost Breakd	lown													
				Detailed Over															
Task					Scope of Se	ervices								1	1	1			
Tush	Project Role QA/QC / Senior	Senior Tech. Avis / Deputy Prj Mngr	Specialist Civil Engineer	IT Professional GIS Develope	CADD Operator / Engineer-in- Senior Training II Training I		1	Total Hours	Total Labor Effort	Total Expense	Foster CM Group	CP&Y	Grubb	Spitzer	RVK	V&A	Total Sub Effort	Total Effort	Assumptions
					Technician \$145.00 \$150.00 \$130.00	\$135.00 \$95.00			Liloit	Effort	Gloup								
Monthly Construction Meetings	6	30	\$110.00	\$100.00 \$110.00	\$110.00 \$100.00 \$100.00	\$100.00 \$00.00		36	\$ 7,560		\$ -	\$ 2,574	\$ -	\$ -	\$ -	\$ -	\$ 2,574	\$ 10,134	
Construction Activities Submittals	30	30						60	\$ - \$ 14,400		\$ - \$ -	\$ - \$ 28,292	\$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ 28,292	\$ - \$ 42,692	
Substitutions	5	5						10	\$ 2,400		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,400	
Request for Information Pay Request	10 10	10 20						20 30	\$ 4,800 \$ 6,750		\$ - \$ -	\$ 9,548 \$ -	\$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ 9,548 \$ -	\$ 14,348 \$ 6,750	
Defective Work	3	6						9	\$ 2,025		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,025	
Change Orders Record Drawings	8	16						24	\$ 5,400 \$ -		\$ - \$ -	\$ 3,960	\$ - \$ -	\$ -	\$ - \$ -	\$ - \$ -	\$ 3,960	\$ 9,360 \$ -	
Commissioning								0	\$ -		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Substantial Completion Final Walkthrough								0	\$ - \$ -		\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	
Warranty Walkthrough								0	\$ -		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
15.5 Management and Coordination of Admin. Building and Cordination of Admin.	Ops. Center							0	\$ - \$ -		\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ -	\$ - \$ -	
Pre-Proposal Meeting								0	\$ -		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Addenda Review Proposal Evaluation and Recommendation								0	\$ - \$ -		\$ -	\$ -	\$ -	\$ -	\$ - \$ -	\$ - \$ -	\$ -	\$ -	
Committee and Board Items								0	\$ -		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Execution of Contract Construction Phase Services								0	\$ - \$ -		\$ - \$ -	φ - \$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Administration Preconstruction Meetings								0	\$ -	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Monthly Construction Meetings								0	\$ - \$ -		\$ - \$ -	\$ -	\$ -	\$ -	\$ -	\$ - \$ -	\$ -	\$ -	
Construction Activities Submittals								0	\$ - \$ -		\$ - \$ -	\$ -	\$ -	\$ -	\$ -	\$ - \$ -	\$ -	\$ - \$ -	
Substitutions								0	\$ -		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Request for Information Pay Request								0	\$ - \$ -		\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	
Defective Work								0	\$ -		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Change Orders Record Drawings								0	\$ - \$ -		\$ - \$ -	\$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	
Commissioning								0	\$ -		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Substantial Completion Final Walkthrough								0	\$ - \$ -		\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	
Warranty Walkthrough								0	\$ -		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
15.6 Management and Coordination of BPS & Delivery Point Procurement Services	is							0	\$ - \$ -		\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	
Pre-Proposal Meeting								0	\$ -		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Addenda Review Proposal Evaluation and Recommendation								0	\$ - \$ -		\$ -	\$ -	\$ -	\$ -	\$ -	\$ - \$ -	\$ -	\$ - \$ -	
Committee and Board Items Execution of Contract								0	\$ -		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Construction Phase Services								0	\$ - \$ -		\$ - \$ -	\$ -	\$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	
Administration Preconstruction Meetings	5 2	15						20 5	\$ 4,350 \$ 1,155		\$ - \$ -	\$ 3,960	\$ - \$ -	\$ -	\$ - \$ -	\$ - \$ -	\$ 3,960	\$ 8,310 \$ 1,155	
Monthly Construction Meetings	6	12						18	\$ 4,050		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,050	
Construction Activities Submittals	5	10						0 15	\$ - \$ 3,375		\$ - \$ -	\$ - \$ 25,784	\$ - \$ -	\$ - \$ -	\$ -	\$ - \$ -	\$ - \$ 25,784	\$ -	
Substitutions	2	2						4	\$ 960		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 960	
Request for Information Pay Request	5 3	5 6						10 9	\$ 2,400 \$ 2,025		\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ -	\$ - \$ -	\$ - \$ -	\$ 2,400 \$ 2,025	
Defective Work	1	2						3	\$ 675		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 675	
Change Orders Record Drawings	3	6						0	\$ 2,025 \$ -		\$ - \$ -	\$ - \$ 1,738	\$ - \$ -	\$ -	\$ - \$ -	\$ - \$ -	\$ - \$ 1,738	\$ 2,025 \$ 1,738	
Commissioning								0	\$ -		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Substantial Completion Final Walkthrough								0	\$ - \$ -		\$ - \$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Warranty Walkthrough	ako							0	\$ -		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Procurement Services								0	\$ - \$ -		\$ - \$ -	\$ - \$ -	\$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	
Pre-Proposal Meeting Addenda Review	2 2	3 3						5 5	\$ 1,155 \$ 1,155		\$ - \$ -	\$ - \$ 990	\$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ 990	\$ 1,155 \$ 2,145	
Proposal Evaluation and Recommendation	3							3	\$ 855		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 855	
Committee and Board Items Execution of Contract	1	2 3						4	\$ 960 \$ 870		\$ - \$ -	\$ - \$ -	\$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ 960 \$ 870	
Construction Phase Services								0	\$ -		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Administration Preconstruction Meetings								0	\$ - \$ -		\$ - \$ -	\$ - \$ -	\$ -	\$ -	\$ - \$ -	\$ -	\$ -	\$ -	
Monthly Construction Meetings								0	\$ -		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Construction Activities Submittals								0	\$ - \$ -		\$ - \$ -	\$ - \$ 5,456	\$ -	\$ -	\$ -	\$ -	\$ - \$ 5,456	\$ -	
Substitutions Request for Information								0	\$ -		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Pay Request								0	\$ - \$ -		\$ - \$ -	\$ - \$ -	\$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ -	\$ -	
Defective Work Change Orders								0	\$ - \$ -		\$ - \$ -	\$ - \$ -	\$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	
Record Drawings								0	\$ -		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Commissioning Substantial Completion								0	\$ - \$ -		\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	
Final Walkthrough								0	\$ -		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Warranty Walkthrough								0	\$ -		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Task 16 - Project Administration								46	\$ 14,400	\$ -	\$ 4,356	\$ 10,582	\$ 1,672	\$ 3,201	\$ -	\$ 3,955	\$ 23,766	\$ 38,166	
16.1 Invoicing 16.2 Project Management	6 18		6 12		6	30		48 36	\$ 6,390 \$ 8,010		\$ 4,356 \$ -	\$ 6,116 \$ 4,466	\$ 1,672 \$ -	\$ 3,201 \$ -	\$ - \$ -	\$ 1,045 \$ 2,910	\$ 16,390 \$ 7,376		
										6	•	,	C	•	•	.,	.,		
Task 17 - Other Services 17.1 Water Quality Testing and Coordination								0	\$ 16,200 \$ -	\$ -	\$ - \$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 16,200 \$ -	
17.2 TCEQ Exception Request and Interconnect Submittals	25	25			15 15			0	\$ -		\$ - \$ -	\$ - \$ -	\$ -	\$ -	\$ -	\$ -	\$ - \$ -	\$ - \$ 16,200	
Task 18 - Environmental Construction Phase Service		25			10 15			0	\$ 16,200 \$ -	\$ -	\$ -	\$ 212,142	\$ -	\$ -	\$ -	\$ -	\$ 212,142	\$ 212,142	
18.1 Pre-Construction Meeting with Contractor								0	\$ -		\$ -	\$ 4,356	\$ -	\$ -	\$ -	\$ -	\$ 4,356	\$ 4,356	

							Regional Water Au													Project Fe	e Summary	
					Own	er's Representative	/ Program Manager	nent (Wo	ork Order No. 6)										Total Effort	\$ 1,989,091	
							2/4/2022															
						Detailed Overa	all Kimley-Horn Co	st Breako	down													
	· · · · · · · · · · · · · · · · · · ·				•		Sc	ope of Se	ervices					•								
Task																						
	Project Role GA/QC / Senior Mngr / Principal	Senior Tech. Avis / Deputy P Mngr	rj Senior Enginee	r GIS Specialist	Civil Engineer	IT Professional GIS Developer	CADD Operator / Engineer-in- Senior Training II Technician	Engineer-in- Training I	GIS Analyst	ministrative Staff / echnician	Total Hours	Total Labor Effort	Total Expense Effort	Foster CM Group	CP&Y	Grubb	Spitzer	RVK	V&A	Total Sub Effort	Total Effort	Assumptions
	Hourly Bill Rate \$285.00	\$235.00	\$195.00	\$180.00	\$175.00	\$155.00 \$170.00	\$145.00 \$150.00	\$130.00	\$135.00	95.00												
18.2	Migratory Bird Nest Survey										0	\$ -		\$ -	\$ 138,56	7 \$ -	\$ -	\$ -	\$ -	\$ 138,567	\$ 138,567	
18.3	Cultural Resources										0	\$ -		\$ -	\$ 2,904	4 \$ -	\$ -	\$ -	\$ -	\$ 2,904		
	Encountered Protected Species										0	\$ -		\$ -	\$ 25,21	8 \$ -	\$ -	\$ -	\$ -	\$ 25,218	\$ 25,218	
18.5	USACE Compliance and Reporting			1							0	\$ -		\$ -	\$ 18,74		\$ -	\$ -	\$ -	\$ 18,744	\$ 18,744	
18.6	Hazardous Material On-Call										0	\$ -		\$ -	\$ 22,35		\$ -	\$ -	\$ -	\$ 22,353		
											Grand Total	\$ 658,790	0 \$ 12,00	0 \$ 129,679	\$ 700,19	0 \$ 28,435	\$ 439,098	\$ -	\$ 20,899	\$ 1,318,301	\$ 1,989,091	
												Subcons	sultant Base F	ee \$ 117,890	\$ 636,53	6 \$ 25,850	\$ 399,180	\$ -	\$ 18,999	SUM		
													% of Total F	ee 5. 9 9	6 32.0	1.3%	6 20.1%	0.0%	1.0%	60.3%		
													10% Mark	up \$ 129,679	\$ 700,190	0 \$ 28,435	\$ 439,098	\$ -	\$ 20,899			
				1																		

Alliance Water	Project Fee Summ	ıary
·	Total Effort \$	117,890
2/4/2022		
Detailed Overall Foster CM Group Cost Breakdown		-

	Bas	ic Services	3						
Task	Project Role	Senior Scheduler	Document Control Specialist	Total Hours	Total Lab Effort		Total Expense Effort	Total Effort	Assumptions
	Hourly Bill Rate	\$220.00	\$125.00						
	Task 1 - Program Management Plan Updates					,760		\$ 1,800	
1.10	Budget and Funding Protocol	4		4	\$	880		\$ 900	
1.11	Schedule Protocol	4		4	\$	880	\$ 20	\$ 900	
					_				
	Task 2 - Stakeholder Coordination					6,600			
2.13	Internal Program Monthly Meetings	30		30	\$ 6	6,600	\$ 100	\$ 6,700)
	Tool O. Du lasting				Φ 57	7.040	Ф 040	Φ 57.05	
0.4	Task 3 - Budgeting	0.40		0.40		7,640	\$ 210		
3.1	Perform Monthly Budget Updates	240		240		2,800		\$ 52,800)
3.1.1	Track costs to the Phase 1B Program vs. the anticipated budget			0	\$	-		Φ -	
3.1.2 3.1.3	Coordinate with applicable parties to receive current OPCC data Identify budget deviations and coordinate with applicable parties			0	\$ \$	-		\$ - ¢	
3.1.3				0	\$	-		\$ -	
	Prepare Budget Updates	22		<u> </u>		-	Ф 240	ф - -	
3.2.1	Executive Director (Monthly) Alliance Water Board and Technical Committee (Quarterly)	22		22		1,840	\$ 210	\$ 5,050	
3.2.2	` ,			0	\$ \$	-		Ф	
3.2.4	PAC (Quarterly) TWDB (Quarterly)			0	\$	-		\$ -	
3.2.5	Public (Quarterly)			0	\$	-		\$ - ¢	
3.2.5	Program Cost Evaluation			0	\$	-		\$ -	
3.3	Program Cost Evaluation			U	Φ	-		Ф -	
	Task 4 - Schedule				\$ 25	5,080	¢ -	\$ 25,080	
4.1	Perform Monthly Schedule Updates	114		114		5,080	Ψ -	\$ 25,080	
4.1.1	Coordinate with applicable parties to obtain current schedules	114		0	\$	-		\$ 25,000	
4.1.2	Identify schedule deviations and coordinate with applicable parties			0	\$	_		\$ -	
4.1.3	Special updates will be performed when critical info becomes known			0	\$	_		\$ -	
4.1.0	Opecial apaates will be performed when children into becomes known				Ψ			Ψ	
	Task 5 - Reporting				\$	_	\$ -	\$ -	
	Task 6 - Data Management				•	2,500	\$ -	\$ 22,500	
6.1	Overall Data Management		180	180		2,500	Ψ	\$ 22,500	
6.1.1	Perform admin. Support functions for overall project record keeping		100	0	\$	-		\$ -	
6.1.2	Enter information into applicable data management system			0	\$	-		\$ -	
6.1.3	Distribute updated contract documents			0	\$	-		\$ -	
6.1.4	Prepare, manage, record, distribute and archive documentation			0	\$	-		\$ -	
6.1.5	Log receipt of all documents and inquiries requiring a response			0	\$	-		\$ -	
6.1.6	Review supporting documents for conformance with PMP			0	\$	-		\$ -	
6.1.7	Maintain project records			0	\$	-		\$ -	
6.1.8	Maintain change management logs, RFI logs, RFP logs, Submittal logs			0	\$	-		\$ -	
6.1.9	Perform internal audits for quality assurance of overall documents			0	\$	-		\$ -	
	Task 7 - Environmental Management				\$	-	\$ -	\$ -	
	Task 8 - Land Acquisition Management				\$	-	\$ -	\$ -	
	Task 9 - Texas Water Development Board Management				\$	-	\$ -	\$ -	
	Task 10 - Design Standards Updates				\$	-	\$ -	\$ -	
	Task 11 - Engineering Design Management				\$	-	\$ -	\$ -	

FOSTER CM

Alliance Water	Project Fee Summ	nary
Owners Representative	Total Effort \$	117,890
2/4/2022		
Detailed Overall Foster CM Group Cost Breakdown		

	Bas							
Task								
	Project Role	Senior Scheduler	Document Control Specialist	Total Hours	Total Labor Effort	Total Expense Effort	Total Effort	Assumptions
	Hourly Bill Rate	\$220.00	\$125.00					
	Task 12 - Quality Assurance				\$ -	\$ -	\$ -	
	Task 13 - Electrical Power Planning				\$ -	\$ -	\$ -	
	Task 14 - Permit Coordination/Tracking				\$ -	\$ -	\$ -	
	Task 15 - Procurement and Construction Phase Services				\$ -	\$ -	\$ -	
	Task 16 - Project Administration				\$ 3,960	\$ -	\$ 3,960	
16.1	Invoicing	18		18	\$ 3,960		\$ 3,960	
16.2	Project Management			0	\$ -		\$ -	
	Task 17 - Other Services				\$ -	\$ -	\$ -	
	Task 18 - Environmental Construction Phase Services				\$ -	\$ -	\$ -	
				Grand Total	\$ 117,540	\$ 350	\$ 117,890	

Alliance Water Project Fee Summary Total Effort \$ Owners Representative 636,536 2/4/2022 **Detailed Overall CPY Group Cost Breakdown**

					Basic 9	Services							
Task													
		r Tech.	Senior Instrumentation			Senior	Instrumentati CADD Operator / Engineer-in-	Engineer-in- Administrativ		Total Labor	Total		
	Project Role Avis / De	leputy Prj Ingr	/ Electrical Senior Engineer	GIS Specialist	Civil Engineer	Biologist	Electrical Senior Training II	Training I Biologist GIS Analyst e Staff / Technician	Total Hours	Effort	Expense Effort	Total Effort	Assumptions
	Hourly Bill Rate \$23		\$225.00 \$195.00	\$180.00	\$175.00	\$165.00	Engineer Technician \$170.00 \$145.00 \$150.00	\$130.00 \$120.00 \$135.00 \$95.00			Elloit		
	Task 1 - Program Management Plan Updates	.0.00	\$220.00 \$100.00	ψ100.00	ψσ.σ	ψισσίσσ	V110100 V110100 V100100	\$155.55 \$125.55 \$455.55 \$455.55		\$ -	\$ -	\$ -	
	Task 2 - Stakeholder Coordination									\$ 53,080	\$ -	\$ 53,080	
	Stakeholder Identification								0	\$ -		\$ -	
	Initial and/or Ongoing Coordination								0	\$ -		\$ -	
2.2.1	Executive Director	4							0	\$ - \$ 940		\$ -	
2.2.2		4							4	\$ 940		\$ 940 \$ 940	
2.2.4	Other Alliance Water Consulting Services								0	\$ -		\$ -	
2.2.5	Texas Commission on Environmental Quality								0	\$ -		\$ -	
2.2.6	Texas Department of Transportation								0	\$ -		\$ -	
2.2.7	Union Pacific Railroad								0	\$ -		\$ -	
2.2.8	Counties (Hays, Caldwell, Guadalupe)								0	\$ -		\$ -	
2.2.9	Cities (Kyle, San Marcos, Uhland, Lockhart, Maxwell, others) GBRA and/or its Consultants								0	\$ -		\$ -	
2.2.10	Other Utilities/Entities								0	\$ - \$ -		\$ - \$ -	
2.3		24	24		24	24			96	\$ 18,480		\$ 18,480	
	Alliance Water Executive Brieder coordinater meetings Alliance Water Technical Committee and Board Meetings	•	2-7						0	\$ -		\$ -	
2.5	PAC Meetings	4							4	\$ 940		\$ 940	
	Other ARWA Consulting Services - as part of Coor. Mtg. with ED.								0	\$ -		\$ -	
		8			8				16	\$ 3,280		\$ 3,280	
2.8	Texas Department of Transportation - Meetings								0	\$ -		\$ -	
	Union Pacific Railroad - Meetings		4						0 4	\$ - \$ 780		\$ -	
	Counties - Meetings Cities - Meetings		4						0	\$ 700		\$ 780 \$ -	
	Other Utilities/Entities - Meetings								0	\$ -		\$ -	
		36	36		36	36			144	\$ 27,720		\$ 27,720	
										,		,	
	Task 3 - Budgeting									\$ -	\$ -	\$ -	
	Task 4 - Schedule									\$ -	\$ -	\$ -	
	Task 5 - Reporting									\$ -	\$ -	\$ -	
	Task 6 - Data Management Task 7 - Environmental Management									\$ - \$ 50,160	\$ - \$ -	\$ - \$ 50,160	
	Perform regular coordination with Env. Cons.					100			100	\$ 16,500	Φ -	\$ 16,500	
	Ongoing agency coordination Ongoing agency coordination					100			0	\$ 10,500		\$ 10,500	
7.2.1	United States Army Corps of Engineers (USACE)					16			16	\$ 2,640		\$ 2,640	
7.2.2	Texas Parks and Wildlife Department (TPWD)					2			2	\$ 330		\$ 330	
7.2.3	Local floodplain administrators					0			0	\$ -		\$ -	
	Assist with the review of Env. Cons. monthly invoices					12			12	\$ 1,980		\$ 1,980	
	Continuous tracking of Env. Cons. Scope of work & amendments					16			16	\$ 2,640		\$ 2,640	
7.5 7.6	Perform as-needed site visits with Env Cons. during Field Study Coordinated site visits with those identified in Task 8 and 11					8			8 2	\$ 1,320 \$ 330		\$ 1,320 \$ 330	
7.7	Review and comment on Environmental Permitting Documents								0	\$ 330		\$ 330	
7.7.1	USACE					24			24	\$ 3,960		\$ 3,960	
7.7.2	TPWD					4			4	\$ 660		\$ 660	
7.7.3	United States Fish and Wildlife Service (USFWS)					4			4	\$ 660		\$ 660	
7.7.4	Texas Historical Commission (THC)					12			12	\$ 1,980		\$ 1,980	
7.8	Review and comment on TWDB deliverables by Env. Cons.					48			48	\$ 7,920		\$ 7,920	
7.9 7.10	Other Environmental Services as defined by Alliance Water Environmental Agency meetings (USACE USEWA TRWD THC)					40			40	\$ 6,600		\$ 6,600	
	Environmental Agency meetings (USACE, USFWA, TPWD, THC) Environmental Consultant Team progress meetings					10			10	\$ 990 \$ 1,650		\$ 990 \$ 1,650	
7.11						10			10	¥ 1,000		Ψ 1,030	
	Task 8 - Land Acquisition Management									\$ -	\$ -	\$ -	
	Task 9 - Texas Water Development Board Management									\$ 55,150	\$ -	\$ 55,150	
9.1	Identify milestone deliverables and provide feedback on CP schedule				30		12		42	\$ 7,050		\$ 7,050	
	Review TWDB deliverables for conformance to TWDB requirements				75		55		130	\$ 21,375		\$ 21,375	
	Perform regular coordination with the TWDB to discuss ongoing actions Prepare fund release request letters for submission to TWDB				55 36		8 10		63 46	\$ 10,825 \$ 7,800		\$ 10,825 \$ 7,800	
	TWDB progress meeting				36		10		48	\$ 7,800		\$ 7,800	
0.0							12		-10	ψ 0,100		Ψ 0,100	
	Task 10 - Design Standards Updates									\$ -	\$ -	\$ -	
	Task 11 - Engineering Design Management									\$ 69,340	\$ -	\$ 69,340	
11.1	Management and Coordination of Hydrogeology/Well Drilling								0	\$ -		\$ -	
	Identify early actions required								0	\$ -		\$ -	
	Assist with the development and review of project scope for the DC								0	\$ -		\$ -	
	Assist with the review of proposed LOE developed by the DC Assist with the review of Design Consultants monthly invoices								0	\$ -		\$ -	
	Perform regular coordination with the DC to discuss ongoing tasks								0	\$ - \$ -		\$ - \$ -	
	Perform as-needed site visits with Design Consultants								0	\$ -		\$ -	
	Review/Comment on TWDB EFR deliverables prepared by DC								0	\$ -		\$ -	
	Review/Comment on milestone submittals prepared by DC								0	\$ -		\$ -	
	Review/Comment on OPCC's prepared by DC								0	\$ -		\$ -	
								•					

CPY	
Alliance Water	Project Fee Summary
	Total Effort \$ 63
2/4/2022	
Detailed Overall CPY Group Cost Breakdown	

				Basic Ser	rvices							
Task		Outles				Instrumental CAPP				-		
	Senior Tech. Project Role Avis / Deputy Pri	Senior Instrumentation	er GIS Specialist Civil		Senior	Instrumentati CADD on / Operator / Engineer-in- Electrical Senior Training II	Engineer-in- Biologist GIS Analyst e Staff /	Total Hours	Total Labor	Total Expense	Total Effort	Assumptions
	Mngr	/ Electrical Engineer	ei Gio opecialist Civil	Eligilieei	Biologist	Electrical Senior Training II Engineer Technician	Training I Biologist GIS Allalyst E Stall / Technician	Total Hours	Effort	Effort	Total Ellort	Assumptions
	Hourly Bill Rate \$235.00	\$225.00 \$195.00	\$180.00 \$1	75.00 \$	165.00		\$130.00 \$120.00 \$135.00 \$95.00					
	Other Design-related services as assigned by Alliance Water							0	\$ -		\$ -	
11.2	Management and Coordination of Well Pumps and Raw Water Inf.							0	\$ -		\$ -	
	Identify early actions required							0	\$ -		\$ -	
	Assist with the development and review of project scope for the DC							0	\$ -		\$ -	
	Assist with the review of proposed LOE developed by the DC	6						6	\$ - \$ 1,170		\$ -	
	Assist with the review of Design Consultants monthly invoices Perform regular coordination with the DC to discuss ongoing tasks	6						0	\$ 1,170		\$ 1,170 \$ -	
	Perform as-needed site visits with Design Consultants							0	\$ -		\$ -	
	Review/Comment on TWDB EFR deliverables prepared by DC							0	\$ -		\$ -	
	Review/Comment on milestone submittals prepared by DC							0	\$ -		\$ -	
	Review/Comment on OPCC's prepared by DC							0	\$ -		\$ -	
	Other Design-related services as assigned by Alliance Water							0	\$ -		\$ -	
11.3	Management and Coordination of WTP and HSPS							0	\$ -		\$ -	
	Identify early actions required							0	\$ -		\$ -	
	Assist with the development and review of project scope for the DC							0	\$ - \$ -		\$ -	
	Assist with the review of proposed LOE developed by the DC Assist with the review of Design Consultants monthly invoices 6							6	\$ 1.410		\$ - \$ 1,410	
	Perform regular coordination with the DC to discuss ongoing tasks		+					0	\$ 1,410		\$ 1,410	
	Perform as-needed site visits with Design Consultants							0	\$ -		\$ -	
	Review/Comment on TWDB EFR deliverables prepared by DC							0	\$ -		\$ -	
	Review/Comment on milestone submittals prepared by DC							0	\$ -		\$ -	
	Review/Comment on OPCC's prepared by DC							0	\$ -		\$ -	
	Other Design-related services as assigned by Alliance Water							0	\$ -		\$ -	
11.4	Management and Coordination of Transmission Pipeline (5 Contracts)							0	\$ -		\$ -	
	Identify early actions required Assist with the development and review of project scope for the DC	8						8	\$ - \$ 1,560		\$ - \$ 1,560	
	Assist with the development and review of project scope for the DC Assist with the review of proposed LOE developed by the DC	4						4	\$ 780		\$ 780	
	Assist with the review of proposed EGE developed by the BO Assist with the review of Design Consultants monthly invoices	12						12	\$ 2,340		\$ 2,340	
	Perform regular coordination with the DC to discuss ongoing tasks 6	160				20		186	\$ 35,610		\$ 35,610	
	Perform as-needed site visits with Design Consultants							0	\$ -		\$ -	
	Review/Comment on TWDB EFR deliverables prepared by DC	16						16	\$ 3,120		\$ 3,120	
	Review/Comment on milestone submittals prepared by DC	40						40	\$ 7,800		\$ 7,800	
	Review/Comment on OPCC's prepared by DC	8						8	\$ 1,560		\$ 1,560	
11 5	Other Design-related services as assigned by Alliance Water 4	20						24	\$ 4,840		\$ 4,840	
11.5	Management and Coordination of Admin. Building and Ops. Center Identify early actions required							0	\$ - \$ -		\$ - \$ -	
	Assist with the development and review of project scope for the DC							0	\$ -		\$ -	
	Assist with the review of proposed LOE developed by the DC							0	\$ -		\$ -	
	Review and provide comments on the PMP prepared by the DC							0	\$ -		\$ -	
	Assist with the review of Design Consultants monthly invoices							0	\$ -		\$ -	
	Perform regular coordination with the DC to discuss ongoing tasks							0	\$ -		\$ -	
	Perform initial windshield survey to review the overall Phase 1B projects							0	\$ -		\$ -	
	Perform as-needed site visits with Design Consultants							0	\$ -		\$ -	
	Review/Comment on TWDB EFR deliverables prepared by DC Review/Comment on milestone submittals prepared by DC							0	\$ -		\$ -	
	Review/Comment on OPCC's prepared by DC							0	\$ - \$ -		\$ -	
	Other Design-related services as assigned by Alliance Water							0	\$ -		\$ -	
11.6	Management and Coordination of BPS & Delivery Points							0	\$ -		\$ -	
	Identify early actions required							0	\$ -		\$ -	
	Assist with the development and review of project scope for the DC							0	\$ -		\$ -	
	Assist with the review of proposed LOE developed by the DC							0	\$ -		\$ -	
	Assist with the review of Design Consultants monthly invoices							0	\$ -		\$ -	
	Perform regular coordination with the DC to discuss ongoing tasks							0	\$ -		\$ -	
	Perform as-needed site visits with Design Consultants Review/Comment on TWDB EFR deliverables prepared by DC							0	\$ - \$ -		\$ - \$ -	
	Review/Comment on TWDB EFR deliverables prepared by DC Review/Comment on milestone submittals prepared by DC							0	\$ -		\$ -	
	Review/Comment on OPCC's prepared by DC		+					0	\$ -		\$ -	
	Other Design-related services as assigned by Alliance Water							0	\$ -		\$ -	
11.7	Management and Coordination of Elevated Storage Tanks							0	\$ -		\$ -	
	Identify early actions required							0	\$ -		\$ -	
	Assist with the development and review of project scope for the DC							0	\$ -		\$ -	
	Assist with the review of proposed LOE developed by the DC							0	\$ -		\$ -	
	Assist with the review of Design Consultants monthly invoices							0	\$ -		\$ -	
	Perform regular coordination with the DC to discuss ongoing tasks	1						0	\$ -		\$ -	
	Perform as-needed site visits with Design Consultants Review/Comment on TWDB EFR deliverables prepared by DC							0	\$ - \$ -		\$ -	
	Review/Comment on TWDB EFR deliverables prepared by DC Review/Comment on milestone submittals prepared by DC	16						16	\$ 3,600		\$ 3,600	
	Review/Comment on OPCC's prepared by DC	10						0	\$ -		\$ 3,600	
	Other Design-related services as assigned by Alliance Water	16						16	\$ 3,600		\$ 3,600	

Project Fee Summary Alliance Water Total Effort \$ Owners Representative 636,536 2/4/2022 Detailed Overall CPY Group Cost Breakdown

			Basic	Services							
Task		October			Lastron and all CARR						
	Senior Tech. Project Role Avis / Deputy Prj	Senior Instrumentation Senior Engineer	GIS Specialist Civil Engineer	Senior	Instrumentati CADD on / Operator / Engineer-in- Electrical Senior Training II	Engineer-in-	Total Hours	Total Labor	Total Expense	Total Effort	Assumptions
	Mngr	/ Electrical Engineer	GIS Specialist Civil Engineer	Biologist	Electrical Senior Training II Engineer Technician	Training I Biologist GIS Analyst e Stair / Technician	Total Hours	Effort	Effort	Total Ellort	Assumptions
	Hourly Bill Rate \$235.00		\$180.00 \$175.00	\$165.00		\$130.00 \$120.00 \$135.00 \$95.00					
11.8	Management and Coordination of Program Survey						0	\$ -		\$ -	
	Identify early actions required						0	\$ -		\$ -	
	Assist with the development and review of project scope for the DC						0	\$ -		\$ -	
	Assist with the review of proposed LOE developed by the DC						0	\$ -		\$ -	
	Assist with the review of Design Consultants monthly invoices						0	\$ -		\$ -	
	Perform regular coordination with the DC to discuss ongoing tasks Perform as-needed site visits with Design Consultants						0	\$ - \$ -		\$ -	
	Review/Comment on TWDB EFR deliverables prepared by DC						0	\$ -		\$ -	
	Review/Comment on milestone submittals prepared by DC						0	\$ -		\$ -	
	Review/Comment on OPCC's prepared by DC						0	\$ -		\$ -	
	Other Design-related services as assigned by Alliance Water						0	\$ -		\$ -	
11.9	Commissioning Planning						0	\$ -		\$ -	
	Consultant Design Teams progress meetings						0	\$ -		\$ -	
11.10.1	Hydrogeology / Well Drilling						0	\$ -		\$ -	
11.10.2	Raw Water Facilities						0	\$ -		\$ -	
11.10.3	WTP / HSPS	40					0	\$ -		\$ -	
11.10.4	Pipelines Administrative Building and Operations Center	10					10	\$ 1,950 \$ -		\$ 1,950 \$ -	
11.10.5	BPS & Delivery Points						0	\$ -		\$ -	
11.10.7	Elevated Storage Tanks						0	\$ -		\$ -	
11.10.8	Program Survey						0	\$ -		\$ -	
	Task 12 - Quality Assurance							\$ 1,400	\$ -	\$ 1,400	
	Review the QA/QC Plans prepared by the Consultants based on PMP						0	\$ -		\$ -	
	Perform regular coordination with all Consultants on QA/QC imp.		4				4	\$ 700		\$ 700	
12.3	Review/Receive QA/QC documentation from Consultants		4				4	\$ 700		\$ 700	
	Task 13 - Electrical Power Planning							\$ -	s -	\$ -	
	Perform Prelim. Analyses to determine approx. demand and energy						0	\$ -	V	\$ -	
	Develop a strategy for cont., gathering system quality, and reliability data						0	\$ -		\$ -	
13.3	Coordination with Electrical Service Providers to evaluate costs						0	\$ -		\$ -	
	Assist Alliance Water with negotiations on the electrical supply agr.						0	\$ -		\$ -	
	Assist Alliance Water by defining special equipment needs						0	\$ -		\$ -	
13.6	Alliance Water and Electrical Service Providers Coord. Meetings						0	\$ -		\$ -	
	Task 14 - Permit Coordination/Tracking							\$ 39,600	\$ -	\$ 39,600	
	Perform regular coordination with Consultants	8					8	\$ 1,560		\$ 1,560	
	Incorporate permit updates from Consultants into master tracking list				24		24	\$ 3,600		\$ 3,600	
	Management of Permit Submittal						0	\$ -		\$ -	
14.3.1	TCEQ 24	0			140		164	\$ 26,640			Permit, PWS coord. For Deliv. Points, Corrosion Report
14.3.2	TxDOT – Design Consultants UPRR	24					24 0	\$ 4,680		\$ 4,680	Segments C, D, and E
14.3.4	Counties (Hays, Caldwell, Guadalupe)	8					8	\$ - \$ 1,560		\$ 1.560	Floodplain permits (Morrison Creek, others)
14.3.5	Cities (Kyle, San Marcos, Uhland, Lockhart, Maxwell, others)	Ŭ					0	\$ -		\$ -	Tribodiplain permite (Mornoon Greek, Guioro)
14.3.6	Private utilities	8					8	\$ 1,560		\$ 1,560	Segments C and D LCRA gas main
	Task 15 - Procurement and Construction Phase Services							\$ 165,330	\$ -	\$ 165,330	
15.1	Management and Coordination of Hydrogeology/Well Drilling						0	\$ -		\$ -	
	Procurement Services						0	\$ -		\$ -	
	Pre-Proposal Meeting						0	\$ -		\$ -	
	Addenda Review						0	\$ -		\$ -	
	Proposal Evaluation and Recommendation						0	\$ -		\$ -	
	Committee and Board Items						0	\$ -		\$ -	
	Execution of Contract						0	\$ - \$ -		\$ - \$ -	
	Construction Phase Services Administration						0	\$ -		\$ -	
	Preconstruction Meetings						0	\$ -		\$ -	
	Monthly Construction Meetings						0	\$ -		\$ -	
	Construction Activities						0	\$ -		\$ -	
	Submittals Submittalis			1			0	\$ -		\$ -	
	Substitutions Request for Information						0	\$ - \$ -		\$ - \$ -	
	Pay Request						0	\$ -		\$ -	
	Defective Work						0	\$ -		\$ -	
	Change Orders						0	\$ -		\$ -	
	Record Drawings						0	\$ -		\$ -	
	Commissioning						0	\$ -		\$ -	
	Substantial Completion						0	\$ -		\$ -	
	Final Walkthrough			1			0	\$ -		\$ -	

CPY			
	Alliance Water	Project Fee Summary	
	Owners Representative	Total Effort \$	636,536
	2/4/2022		
	Detailed Overall CPY Group Cost Breakdown		

						Basic S	Services										
Task									0.100								
	Project Role Avis / D	or Tech.	Senior Instrumentation	Senior Engineer	GIS Specialist	Civil Engineer	Senior	Instrumentati on /	CADD Operator / Engineer- Senior Training	in- Engineer-in-	Biologist GIS Analy	Administrativ	Total Hours	Total Labor	Total Expense	Total Effort	Assumptions
	Project Role N	/Ingr	/ Electrical Engineer	Octilor Engineer	GIO OPECIAIIST	Olvii Eligiileei	Biologist	Electrical Engineer	Senior Training Technician	II Training I	Diologist Olo Allaiy	Technician	Total Hours	Effort	Effort	Total Liloit	Assumptions
	Hourly Bill Rate \$23	35.00		\$195.00	\$180.00	\$175.00	\$165.00		\$145.00 \$150.0	0 \$130.00	\$120.00 \$135.00	0 \$95.00					
	Warranty Walkthrough												0	\$ -		\$ -	
15.2	Management and Coordination of Well Pumps and Raw Water Inf. Procurement Services												0	\$ - \$ -		\$ -	
	Pre-Proposal Meeting												0	\$ -		\$ -	
	Addenda Review												0	\$ -		\$ -	
	Proposal Evaluation and Recommendation												0	\$ -		\$ -	
	Committee and Board Items												0	\$ -		\$ -	
	Execution of Contract Construction Phase Services												0	\$ - \$ -		\$ -	
	Construction Phase Services Administration			8									0 8	\$ 1,560		\$ - \$ 1,560	
	Preconstruction Meetings												0	\$ -		\$ -	
	Monthly Construction Meetings			12									12	\$ 2,340		\$ 2,340	
	Construction Activities								_				0	\$ -		\$ -	
		6	16	24				16	0				62 0	\$ 12,410		\$ 12,410 \$ -	
	Substitutions Request for Information			20									20	\$ - \$ 3,900		\$ 3,900	
	Pay Request												0	\$ -		\$ -	
	Defective Work	4		8					8				20	\$ 3,700		\$ 3,700	
	Change Orders		8	16									24	\$ 4,920		\$ 4,920	
	Record Drawings												0	\$ - \$ -		\$ -	
	Commissioning Substantial Completion												0	\$ -		\$ - \$ -	
	Final Walkthrough												0	\$ -		\$ -	
	Warranty Walkthrough												0	\$ -		\$ -	
15.3	Management and Coordination of WTP and HSPS												0	\$ -		\$ -	
	Procurement Services												0	\$ -		\$ -	
	Pre-Proposal Meeting Addenda Review							+ +		+ +			0	\$ - \$ -		\$ - \$ -	
	Proposal Evaluation and Recommendation									+			0	\$ -		\$ -	
	Committee and Board Items												0	\$ -		\$ -	
	Execution of Contract												0	\$ -		\$ -	
	Construction Phase Services	6				10		1		+			0	\$ -		\$ -	
	Administration Preconstruction Meetings	6				12		+		+			18 0	\$ 3,510 \$ -		\$ 3,510 \$ -	
		6				12							18	\$ 3,510		\$ 3,510	
	Construction Activities												0	\$ -		\$ -	
		8	40	-		24		40					112	\$ 21,880		\$ 21,880	
		8				16				+			24	\$ 4,680		\$ 4,680	
	Request for Information Pay Request	8				24				+			32 0	\$ 6,080 \$ -		\$ 6,080 \$ -	
	Defective Work												0	\$ -		\$ -	
	Change Orders	4	16			8							28	\$ 5,940		\$ 5,940	
	Record Drawings		0					0					0	\$ -		\$ -	
	Commissioning Substantial Completion									+			0	\$ -		\$ -	
	Substantial Completion Final Walkthrough									+			0	\$ -		\$ - \$ -	
	Warranty Walkthrough												0	\$ -		\$ -	
15.4	Management and Coordination of Transmission Pipeline (5 Contracts)												0	\$ -		\$ -	
	Procurement Services												0	\$ -		\$ -	
	Pre-Proposal Meeting			8						+			8	\$ 1,560		\$ 1,560	
	Addenda Review Proposal Evaluation and Recommendation			16 4						+			16 4	\$ 3,120 \$ 780		\$ 3,120 \$ 780	
	Committee and Board Items			4									4	\$ 780		\$ 780	
	Execution of Contract			8									8	\$ 1,560		\$ 1,560	
	Construction Phase Services		-			-							0	\$ -		\$ -	
	Administration Proceedings Meetings		16	16						+			32	\$ 6,720		\$ 6,720	
	Preconstruction Meetings Monthly Construction Meetings			8 12						+			8 12	\$ 1,560 \$ 2,340		\$ 1,560 \$ 2,340	
	Construction Activities			12									0	\$ 2,340		\$ 2,340	
	Submittals	0	80	16				20	8				124	\$ 25,720		\$ 25,720	
	Substitutions							26					0	\$ -		\$ -	
	Request for Information		20	4				20		+			44	\$ 8,680		\$ 8,680	
	Pay Request Defective Work	0		0					0	+			0	\$ -		\$ - \$ -	
	Change Orders	J	16	0									16	\$ 3,600		\$ 3,600	
	Record Drawings		0					0					0	\$ -		\$ -	
	Commissioning												0	\$ -		\$ -	
	Substantial Completion									+			0	\$ -		\$ -	
	Final Walkthrough Warranty Walkthrough												0	\$ -		\$ - \$ -	
15.5	Warranty Waiktnrough Management and Coordination of Admin. Building and Ops. Center												0	\$ - \$ -		\$ -	
	Sala obstantation of Admin Daliding and Opo. Conto			1	1		1	1	1	1				1 *		· *	

Project Fee Summary Alliance Water Owners Representative 2/4/2022 Total Effort \$ 636,536 Detailed Overall CPY Group Cost Breakdown

					Basic	Services									
Task			Senior			Instrumentati	CADD						Total		
		Project Role Avis / Deputy Prj	Instrumentation / Electrical	Senior Engineer GIS Specialist	Civil Engineer	Senior on / Biologist Electrical	CADD Operator / Engineer-ir Senior Training II	Engineer-in-	Biologist GIS Analyst e Staff /	′	Total Hours	Total Labor	Expense	Total Effort	Assumptions
		Mngr	Engineer			Engineer	Lechnician					Effort	Effort		·
	Procurement Services	Hourly Bill Rate \$235.00	\$225.00	\$195.00 \$180.00	\$175.00	\$165.00 \$170.00	\$145.00 \$150.00	\$130.00	\$120.00 \$135.00 \$95.00		0	\$ -		\$ -	
	Pre-Proposal Meeting										0	\$ -		\$ -	
	Addenda Review										0	\$ -		\$ -	
	Proposal Evaluation and Recommendation										0	\$ -		\$ -	
	Committee and Board Items										0	\$ -		\$ -	
	Execution of Contract Construction Phase Services										0	\$ -		\$ - \$ -	
	Administration										0	\$ -		\$ -	
	Preconstruction Meetings										0	\$ -		\$ -	
	Monthly Construction Meetings Construction Activities										0	\$ -		\$ -	
	Submittals										0	\$ -		\$ - \$ -	
	Substitutions										0	\$ -		\$ -	
	Request for Information										0	\$ -		\$ -	
	Pay Request Defective Work										0	\$ - \$ -		\$ - \$ -	
	Change Orders										0	\$ -		\$ -	
	Record Drawings										0	\$ -		\$ -	
	Commissioning										0	\$ -		\$ -	
	Substantial Completion Final Walkthrough										0	\$ - \$ -		\$ - \$ -	
	Warranty Walkthrough										0	\$ -		\$ -	
15.6	Management and Coordination of BPS & Delivery Points										0	\$ -		\$ -	
	Procurement Services										0	\$ -		\$ -	
	Pre-Proposal Meeting Addenda Review										0	\$ - \$ -		\$ - \$ -	
	Proposal Evaluation and Recommendation										0	\$ -		\$ -	
	Committee and Board Items										0	\$ -		\$ -	
	Execution of Contract										0	\$ -		\$ -	
	Construction Phase Services Administration		16								0 16	\$ -		\$ - \$ 3,600	
	Preconstruction Meetings		10								0	\$ 3,000		\$ 3,000	
	Monthly Construction Meetings										0	\$ -		\$ -	
	Construction Activities		00			00					0	\$ -		\$ -	
	Submittals Substitutions		80			32					112 0	\$ 23,440 \$ -		\$ 23,440 \$ -	
	Request for Information										0	\$ -		\$ -	
	Pay Request										0	\$ -		\$ -	
	Defective Work Change Orders										0	\$ -		\$ - \$ -	
	Record Drawings		4			4					8	\$ - \$ 1,580		\$ 1,580	
	Commissioning										0	\$ -		\$ -	
	Substantial Completion										0	\$ -		\$ -	
	Final Walkthrough Warranty Walkthrough										0	\$ - \$ -		\$ - \$ -	
15.7	Management and Coordination of Elevated Storage Tanks										0	\$ -		\$ -	
	Procurement Services										0	\$ -		\$ -	
	Pre-Proposal Meeting										0	\$ -		\$ -	
	Addenda Review Proposal Evaluation and Recommendation		4								0	\$ 900 \$ -		\$ 900 \$ -	
	Committee and Board Items										0	\$ -		\$ -	
	Execution of Contract										0	\$ -		\$ -	
	Construction Phase Services							1			0	\$ -		\$ -	
	Administration Preconstruction Meetings										0	\$ - \$ -		\$ - \$ -	
	Monthly Construction Meetings										0	\$ -		\$ -	
	Construction Activities										0	\$ -		\$ -	
	Submittals Substitutions		16			8					24	\$ 4,960		\$ 4,960	
	Request for Information										0	\$ - \$ -		\$ - \$ -	
	Pay Request										0	\$ -		\$ -	
	Defective Work										0	\$ -		\$ -	
	Change Orders Record Drawings										0	\$ -		\$ -	
	Commissioning		0					1			0	\$ - \$ -		\$ - \$ -	
	Substantial Completion										0	\$ -		\$ -	
	Final Walkthrough										0	\$ -		\$ -	
15.0	Warranty Walkthrough Management and Coordination of Program Survey										0	\$ - \$ -		\$ - \$ -	
15.8	Procurement Services							1			0	\$ -		\$ -	
	Pre-Proposal Meeting										0	\$ -		\$ -	
											-				

CPY	
Alliance Water	Project Fee Summary
	Total Effort \$ 63
2/4/2022	
Detailed Overall CPY Group Cost Breakdown	

	Basic Services																
Task																	
	Senior Tech.	Senior			Instr	umentati CADD				Adr	inistrativ			Total Labor	Total		
	Project Role Avis / Deputy Pr	Instrumentation / Electrical	Senior Engineer GIS Specialist	Civil Engineer	Senior Biologist Ele	on / Operator ectrical Senior	/ Engineer-in- Training II	Engineer-in- Training I	Biologist	GIS Analyst e	Staff /	To	otal Hours	Effort	Expense	Total Effort	Assumptions
	Mngr	Engineer			En	ngineer Technicia	n				chnician			LIIOIT	Effort		
	Hourly Bill Rate \$235.00	\$225.00	\$195.00 \$180.00	\$175.00	\$165.00 \$1	70.00 \$145.0	0 \$150.00	\$130.00	\$120.00	\$135.00 \$	95.00						
	Addenda Review												0	\$ -		\$ -	
	Proposal Evaluation and Recommendation												0	\$ -		\$ -	
	Committee and Board Items												0	\$ -		\$ -	
	Execution of Contract												0	\$ -		\$ -	
	Construction Phase Services												0	\$ -		\$ -	
	Administration												0	\$ -		\$ -	
	Preconstruction Meetings												0	\$ -		\$ -	
	Monthly Construction Meetings												0	\$ -		\$ -	
	Construction Activities												0	\$ -		\$ -	
	Submittals												0	\$ -		\$ -	
	Substitutions												0	\$ -		\$ -	
	Request for Information												0	\$ -		\$ -	
	Pay Request												0	\$ -		\$ -	
	Defective Work												0	\$ -		\$ -	
	Change Orders												0	\$ -		\$ -	
	Record Drawings												0	\$ -		\$ -	
	Commissioning												0	\$ -		\$ -	
	Substantial Completion												0	\$ -		\$ -	
	Final Walkthrough												0	\$ -		\$ -	
	Warranty Walkthrough												0	\$ -		\$ -	
	·																
	Task 16 - Project Administration													\$ 9,620	\$ -	\$ 9,620	
16.1	Invoicing 4		12								24		40	\$ 5,560		\$ 5,560	
16.2	Project Management 4		16										20	\$ 4,060		\$ 4,060	
	, ,													. ,,,,,,		,,,,,,,	
	Task 17 - Other Services													\$ -	\$ -	\$ -	
17.1	Water Quality Testing and Coordination												0	\$ -	Ť	\$ -	
17.2	TCEQ Exception Request and Interconnect Submittals												0	\$ -		\$ -	
17.3	Other design tasks as assigned by Alliance Water												0	\$ -		\$ -	
	Task 18 - Environmental Construction Phase Services												ŭ	\$ 143,550	\$ 49,306	Ŧ	
18.1	Pre-Construction Meeting with Contractor				24								24	\$ 3,960	÷ .5,500	\$ 3.960	
18.2	Migratory Bird Nest Survey				390				400	12			802	\$ 113,970	\$ 12,000		Hicks is shown in Expense. CPY hours for Agency Coord/Sub Mgmt.
18.3	Cultural Resources				16								16	\$ 2,640	2,300	\$ 2,640	
18.4	Encountered Protected Species				24								24	\$ 3,960	\$ 18,965		
18.5	USACE Compliance and Reporting				40				60	24			124	\$ 17,040	\$ 10,000	\$ 17,040	
18.6	Hazardous Material On-Call				12				30	2-7			12	\$ 1,980	\$ 18.341	\$ 20,321	
10.0	Tidzardodo material Off-Odii	1	1	1	12		1	1	l .	1		Gran	nd Total	\$ 587,230			
												Grai	nu 10tai	φ 361,230	a 49,300	φ 050,530	<u>'</u>

Grubb

Alliance Water		Project Fee Summary
	Total Effort	\$ 25,850
2/4/2022		
Detailed Overall Grubb Cost Breakdown		

		Basic Ser	vices							
Task										
	Project Role	QA/QC / Senior Mngr / Principal	Senior Engineer	Administrativ e Staff / Technician		Total Hours	Total Labor Effort	Total Expense Effort	Total Effort	Assumptions
	Hourly Bill Rate	\$285.00	\$195.00	\$95.00						
	Task 13 - Electrical Power Planning						\$ 24,330	\$ -	\$ 24,330	
13.1	Perform Prelim. Analyses to determine approx. demand and energy	8	4	0		12	\$ 3,060		\$ 3,060	
13.2	Develop a strategy for cont., gathering system quality, and reliability data	4	5	0		9	\$ 2,115		\$ 2,115	
13.3	Coordination with Electrical Service Providers to evaluate costs	12	9	0		21	\$ 5,175		\$ 5,175	
13.4	Assist Alliance Water with negotiations on the electrical supply agr.	20	8	0		28	\$ 7,260		\$ 7,260	
13.5	Assist Alliance Water by defining special equipment needs	4	4	0		8	\$ 1,920		\$ 1,920	
13.6	Alliance Water and Electrical Service Providers Coord. Meetings	10	10	0		20	\$ 4,800		\$ 4,800	
	Task 16 - Project Administration						\$ 1,520	\$ -	\$ 1,520	
16.1	Invoicing	0	0	16		16	\$ 1,520		\$ 1,520	
16.2	Project Management					0	\$ -		\$ -	
						Grand Total	\$ 25,850	\$ -	\$ 25,850	

Spitzer

Alliance Water	Project Fee Summary					
Owners Representative	Total Effort	\$ 399,180				
2/4/2022						
Detailed Overall Spitzer Cost Breakdown	•					

Task Basic Services										
	Project Role	Manager	Acquisition / Title Specialist	Document Control Specialist	Total Hours	Total Labor Effort		Total Expense Effort	Total Effort	Assumptions
	Hourly Bill Rate	\$235.00	\$140.00	\$125.00						
	Task 1 - Program Management Plan Updates					\$	1,800	\$ -	\$ 1,800	
1.6	Land Acquisition Protocol	5		5	10	\$	1,800		\$ 1,800	
	Task 2 - Stakeholder Coordination					\$	20,680	\$ -	\$ 20,680	
2.3	Alliance Water Executive Director coordination meetings	48			48	\$	11,280		\$ 11,280	
2.13	Internal Program Monthly Meetings	40			40	\$	9,400		\$ 9,400	
	Task 3 - Budgeting					\$	-	\$ -	\$ -	
	Task 4 - Schedule					\$	-	\$ -	\$ -	
	Task 5 - Reporting					\$	-	\$ -	\$ -	
	Task 6 - Data Management					\$	-	\$ -	\$ -	
	Task 7 - Environmental Management					\$	-	\$ -	\$ -	
	Task 8 - Land Acquisition Management					\$	373,790	\$ -	\$ 373,790	
8.1	Perform regular coordination with Ld. Acq. Cons.	500		1,000	1,500	\$	242,500		\$ 242,500	
8.2	Assist with the review of Ld. Acq. Cons. monthly invoices	10		12	22	\$	3,850		\$ 3,850	
8.3	Continuous tracking of Land Acq. Scope of work & amendments	10			10	\$	2,350		\$ 2,350	
8.4	Review land acquisition data for conformance to the PMP/RAMP	24		40	64	\$	10,640		\$ 10,640	
8.5	Perform as-needed site visits with Ld. Acq. Cons.	5			5	\$	1,175		\$ 1,175	
8.6	Coordinated site visits with those identified in Task 7 and 11	5	5		10	\$	1,875		\$ 1,875	
8.7	Review and comment on TWDB land acquisition deliverables	5		40	45	\$	6,175		\$ 6,175	
8.8	Coord. with landowners to facilitate access for Consultants for field work	5	40		45	\$	6,775		\$ 6,775	
8.9	Assist in resolution of title issues		500	72	572	\$	79,000		\$ 79,000	
8.10	Weekly Mtg with Alliance Water and Special Counsel	52			52	\$	12,220		\$ 12,220	
8.11	Other Ld. Acq. services as identified and assigned by Alliance Water				0	\$	-		\$ -	
8.12	Land Acq. Team progress meetings	6	6	6	18	\$	3,000		\$ 3,000	
	Task 9 - Texas Water Development Board Management					\$	-	\$ -	\$ -	
	Task 10 - Design Standards Updates					\$	-	\$ -	\$ -	
	Task 11 - Engineering Design Management					\$	-	\$ -	\$ -	
	Task 12 - Quality Assurance					\$	-	\$ -	\$ -	
	Task 13 - Electrical Power Planning					\$	-	\$ -	\$ -	
	Task 14 - Permit Coordination/Tracking					\$	-	\$ -	\$ -	
	Task 15 - Procurement and Construction Phase Services					\$	-	\$ -	\$ -	
	Task 16 - Project Administration					\$	2,910	\$ -	\$ 2,910	
16.1	Invoicing	6		12	18	\$	2,910		\$ 2,910	
16.2	Project Management				0	\$	-		\$ -	
	Task 17 - Other Services					\$	-	\$ -	\$ -	
	Task 18 - Environmental Construction Phase Services					\$	-	\$ -	\$ -	
					Grand Total	\$	399,180	\$ -	\$ 399,180	

V&A

ſ	Alliance Water	Project Fee Summary					
ľ	Owners Representative	Total Effort	\$	18,999			
	2/4/2022			·			
	Detailed Overall V&A Cost Breakdown						

	Basic Services															
Task																
	Project Role	QA/QC / Senior Mngr / Principal	Senior Tech. Avis / Deputy Pr Mngr	Senior Engineer		Senior Technician	Training I	Administrativ e Staff / Technician		Total Hours	Total La			ense Total Effort		Assumptions
	Hourly Bill Rate	\$285.00	\$235.00	\$195.00	\$175.00	\$145.00	\$130.00	\$95.00								
	Task 10 - Design Standards Updates										\$ 1	5,230	\$ 1	74 \$	15,404	
10.1	Development of Design Standards, Specifications, and Details									0	\$	-		\$	-	
10.1.1	Transmission Pipelines and Delivery Points Design Stds Finalize									0	\$	-		\$	-	
10.1.2	Preparation of Standard Specifications for Const Finalize									0	\$	-		\$	-	
10.1.3	Preparation of Standard Details - Finalize									0	\$	-		\$	-	
10.1.4	Pipeline Corrosion Protection Standards	2	18	20	14	4	24	4		86	\$ 1	5,230	\$ 1	74 \$	15,404	300 miles of travel
	Task 16 - Project Administration										\$	3,595	\$	- \$	3,595	
16.1	Invoicing							10		10	\$	950		\$	950	
16.2	Project Management	2	8	1						11	\$	2,645		\$	2,645	
		•								Grand Total	\$ 1	8,825	\$	174 \$	18,999	

REGULAR MEETING Alliance Regional Water Authority Board of Directors

BOARD MEMBER PACKETS

Wednesday, February 23, 2022 at 3:00 P.M. County Line SUD Offices, 8870 Camino Real, Kyle, TX 78640

H.9 Consider adoption of Resolution 2022-02-23-005 approving Work Order #2 and Work Order #3 with HVJ Associates for material testing on the Booster Pump Station and Delivery Points Project and the Segment A Pipeline project. ~ Graham Moore, P.E., Executive Director

Background/Information

The Authority entered into a Master Agreement with HVJ Associates for material testing on the Phase 1B Program after a Request for Qualifications process was followed. Work Order #1 was issued to HVJ in July 2021 for the Water Treatment Plant Project.

The Executive Director negotiated the scope and fee for the materials testing for the Booster Pump Station and the Segment A projects with HVJ. The effort was reviewed by the both the Owner's Representative and the Construction Management and Inspection teams to help ensure that all anticipated materials testing needs are included.

Staff anticipates additional work orders with HVJ for the material testing associated with the other Phase 1B projects.

Below are some of the key facts regarding the proposal:

	Work Order #2	Work Order #3
Firm:	HVJ, Inc.	HVJ, Inc.
Project:	Booster Pump Station	Segment A
Fee:	\$131,259	\$730,665
Work Order Type:	Hourly, Not-to-Exceed	Hourly, Not-to-Exceed
Duration:	Thru 9/2023	Thru 6/2023
Project Manager:	Pat Lee	Pat Lee

Attachment(s)

- Resolution 2022-02-22-005
- ARWA Booster Pump Station Proposal dated February 8, 2022.
- ARWA Segment A Proposal dated February 8, 2022

Board decision needed:

 Adoption of Resolution 2022-02-23-005 approving Work Orders #2 and #3 with HVJ South Central Texas – M&J, Inc. for Materials Testing of the Booster Pump Station and Segment A projects, respectively.



RESOLUTION NO. 20220223-005

A RESOLUTION OF THE ALLIANCE REGIONAL WATER AUTHORITY BOARD OF DIRECTORS APPROVING WORK ORDER #2 AND WORK ORDER #3 BETWEEN THE AUTHORITY AND HVJ SOUTH CENTRAL TEXAS – M&J, INC. FOR MATERIAL TESTING SERVICES RELATED TO THE AUTHORITY'S PHASE 1B PROGRAM AND RELATED MATTERS, AND DECLARING AN EFFECTIVE DATE

RECITALS:

- 1. The Alliance Regional Water Authority (the "Authority") entered into a Master Agreement with HVJ South Central Texas M&J, Inc. (HVJ) in July 2021 for material testing services after having conducted a request for qualifications process.
- **2.** The Authority is in need of material testing services for both its Booster Pump Station and Delivery Points Project and the Segment A Pipeline Project.
- **3.** The Executive Director negotiated Work Order #2 and Work Order #3 for with HVJ for the material testing necessary for the Booster Pump Station and Delivery Points Project and the Segment A Pipeline Project, respectively.
 - **4.** The work orders reference terms and conditions in the Master Agreement.

BE IT RESOLVED BY THE BOARD OF DIRECTORS OF THE ALLIANCE REGIONAL WATER AUTHORITY:

- **SECTION 1.** The attached Work Order #2 for Material Testing Services for the Phase 1B Booster Pump Station and Delivery Points Project between the Authority and HVJ is approved.
- **SECTION 2.** The attached Work Order #3 for Material Testing Services for the Phase 1B Segment A Project between the Authority and HVJ is approved.
- **SECTION 3.** The Authority's Executive Director, Graham Moore, is authorized to execute the attached Work Order #2 and Work Order #3 on behalf of the Authority.
- **SECTION 4.** This Resolution shall be in full force and effect immediately upon its passage.

7,001 1201 1 Coldary 25, 2022.	
	ATTEST:
Chris Betz	James Earp
Chair, Board of Directors	Secretary, Board of Directors

ADOPTED: February 23, 2022



4201 Freidrich Lane, Suite 110

Austin, Texas 78744

512.447.9081 Ph

512.443.3442 Fax

www.hvj.com

January 21, 2022 (Revised February 8, 2022)

Mr. Graham Moore, PE Executive Director Alliance Regional Water Authority 630 E. Hopkins San Marcos, Texas 78666

Re: ARWA Phase 1B - Booster Pump Station and Delivery Points

Construction Phase Materials Testing Proposal

San Marcos, Texas

HVJ Project No. AC2110020.2.

Dear Mr. Moore:

Pursuant to your request, HVJ South Central Texas – M&J, Inc. (HVJ) is pleased to submit this revised proposal to provide Owner quality assurance testing for the above referenced project. This proposal includes brief scope and fee for construction phase materials testing services following a brief review of the project documents.

Project Description

It is understood the proposed Booster Pump Station consists of but is not limited to the following structures and related utility lines: yard piping, ground storage tank, pump station, electrical building, generator and transformer pads, various delivery points located at San Marcos #1 & #2, CRWA #1, #3 & #4, and associated site work.

Scope of Services

The general scope of material testing services anticipated for this project is as follows.

- Soils and Base Lab/Field Testing
- Concrete Field/Lab Testing
- Welding Inspections

It is understood that materials testing services were estimated on a call-out basis, where personnel will not be present full time during performance of the work. *However, HVJ-SCTx will work with the contractor to combine testing activities in an effort to reduce the number of site visits*.

Cost Estimate

We recommend allocating a budget of \$131,259 for construction materials testing for the proposed Phase 1B Booster Pump Station. Summary of the materials testing budget fee is shown below

Description	Unit	Quantity	Rate	Total
Tech Time for Soil Monitoring and Compaction Testing	hrs	504	\$84	\$42,336
Tech Time for Concrete Testing	hrs	280	\$84	\$23,520
Tech Overtime for Soils and Concrete Testing	hrs	40	\$126	\$5,040
Nuclear Gauge Charge	trip	84	\$55	\$4,620
Vehicle Charge	trip	150	\$80	\$12,000
			Subtotal	\$87,516
ARWA Phase 1B - Materials Testing for Booster Pump Station	on and Delivery	Points (Laborat	tory Services)	
Description	Unit	Quantity	Rate	Total
Sample Preparation	each	10	\$75	\$750
Atterberg Limits	each	20	\$75	\$1,500
Sieve Analyses	each	20	\$72	\$1,440
Proctors	each	20	\$275	\$5,500
Concrete Cylinder Compressive Strengths	each	250	\$24	\$6,000
			Subtotal	\$15,190
ARWA Phase 1B - Weld Inspection for Booster Pump				
Description	Unit	Quantity	Rate	Total
Pipeline Inspector (CWI)	hour	35	115	\$4,025
Pipeline Inspector - Overtime	hour	5	172.5	\$863
Magnetic Particle Equipment	trip	5	\$125	\$625
Vehicle Charge	trip	5	\$80	\$400
Reporting - Welding Inspection	each	5	\$100	\$500
			Subtotal	\$6,413
ARWA Phase 1B - Materials Testing for Booster Pump Sta &	Delivery Point	s (Project Mana	gement and A	Administration)
Description	Unit	Quantity	Rate	Total
Project Manager (PM), PE	hrs	60	\$179	\$10,740
Task Leader (Deputy PM)	hrs	60	\$125	\$7,500
Administrative	hrs	60	\$65	\$3,900
			Subtotal	\$22,140
			Total	\$131,259

This estimate was prepared based on a *17 month* construction schedule. The cost estimate is based on our projections for both the construction schedule and the frequency of service requests from the Client. As the schedule and frequency of service requests are beyond our control, we cannot guarantee that the estimate provided herein will be adequate for the services needed through the entire duration of the construction of this project. We understand that advance authorization will be required if additional funds are needed to complete the testing per project specifications. HVJ will monitor the budget as the work proceeds and will keep you or your designated representative informed.

Scheduling of our personnel for this project will be at the request of you or your designated representatives. To ensure proper scheduling of the work, we require a minimum 24 hour notice (1 full business day, Monday-Friday) to provide on-call personnel.

Services will be invoiced on a unit fee basis in accordance with the attached Construction Phase Services Fee Schedule. Overtime rates of 1.5 times the regular hourly rates will be charged for time

ARWA Phase 1B – Booster Pump Station and Delivery Points AC2110020.2 (Revised)

February 8, 2022

worked over 8 hours per day, hours worked before 6:00 AM or after 6:00 PM Monday through Friday, and all hours worked on Saturdays, Sundays and holidays.

Limitations

Our work will be performed in a manner consistent with that level of care and skill ordinarily exercised by other members of HVJ's profession practicing in the same locality, under similar conditions and on the date the services are provided. Our conclusions, opinions and recommendations will be based on a limited number of observations and data. It is possible that conditions could vary between or

beyond the data evaluated. HVJ makes no guarantee or warranty, express or implied, regarding the services, communication (oral or written), report, opinion, or instrument of service provided.

This proposal was prepared specifically for the client and its designated representatives and may not be provided to others without HVJ's expressed permission.

HVJ Associates® is pleased to submit this revised proposal for the proposed improvements. Should you have any questions regarding the contents of this proposal, please contact us at 512-447-9081.

Sincerely,

HVJ South Central Texas - M&J, Inc.

TBPE F-18091

Syed Jafar, P.E.

Executive Vice President

Enclosures:

Attachment A: Standard Fee Schedule (4 pages)

55.00

HOURLY RATES

HVJ SOUTH CENTRAL TEXAS CONSTRUCTION MATERIALS ENGINEERING AND TESTING SERVICES STANDARD FEE SCHEDULE

ALLIANCE REGIONAL WATER AUTHORITY MASTER FEE SCHEDULE

CODE DESCRIPTION

204

	1	Project Manager (PE)	5	179.00
	2	Sr. Project Engineer(PE)	5	179.00
	3	Project Engineer (PE)	\$	150.00
	4	Staff Engineer (EIT)	5	125.00
	5	Certified Engineering Technician	5	84.00
	6	Welding Inspector (CWI)	5	115.00
	7	NDT Inspector (ASNT Level II)	5	125.00
	8	NDT Inspector (ASNT Level III)	\$	145.00
	9	NACE Inspector Level I Coatings Inspector	\$	115.00
	10	Administrative	5	65.00
	11	Vehicle Charge (per trip)	\$	80.00
	12	Nuclear Gauge (per trip)	\$	55.00
	13	Traffic Control		Cost + 10%
MAI	ERIAL T	ESTING	u	INIT PRICE
100	Concret	te Aggregates:		
	101	Screen or Sieve Analysis (ASTM C-136 or Tex-110)	5	72.00
	102	Specific Gravity (ASTM C-127 or C128)	5	51.00
	103	Unit Weight (ASTM C-29)	\$	45.00
	104	Absorption (ASTM C-127 or C-128)	5	44.00
	105	Finer than 200 Mesh (ASTM C-117)	\$	49.00
	106	Organic Impurities (ASTM C-40)	\$	45.00
	107	Scratch Hardness (ASTM C-851)	\$	45.00
	108	Abrasion Tests (ASTM C-131 or C-535)	5	215.00
	109	Clay Lumps (ASTM C-142)	5	55.00
	110	Light Weight Pieces (ASTM C-123)	\$	61.00
	III	Sand Equivalent (ASTM D-2419)	5	65.00
	112	Sodium/Magnesium Sulfate Soundness (5 Cycles)	5	390.00
	113	Sodium/Magnesium Sulfate Soundness Additional Cycles	5	175.00
	114	Petrographic Examination of Concrete Aggregates (ASTM C-295)		By Quotation
200	Concret	te Mix Design Inspection and Testing		
	201	Mix Design Review (using previously determined aggregate properties and other design factors) Excluding Test Costs	\$	179.00
		Trial Batch Tests (ASTM C-192) (Using aggregate admixtures and cement		
	202	proposed for use in the project) each batch or each curve point	\$	45 0.00
	203	Cylinders (ASTM C-39) test or hold, each	\$	24.00

Beam Test (ASTM C-78, C-293) or Hold, Each

Attachment A

HVJ SOUTH CENTRAL TEXAS CONSTRUCTION MATERIALS ENGINEERING AND TESTING SERVICES STANDARD FEE SCHEDULE

	CODE	DESCRIPTION	U	INIT PRICE
	205	Concrete Coring (4" Dia Up to 6" Thickness) ASTM C-42 includes	5	90.00
		Personnel, Vehicle and Patching Holes	•	90.00
	206	Measuring Thickness of Concrete Cores (ASTM C-174)	\$	22.00
	207	Additional Thickness (6"to 12")/ (Inch)	\$	8.00
	208	Additional Thickness (Over 12")/ (Inch)	\$	10.00
	209	Concrete Coring, Minimum Charge (Min. 3 Cores)/ (LS)	\$	290.00
	210	Preparation of Cores, Capping & Test (ASTM C42, C-39)	\$	67.00
	211	Cement Compressive Strength, one age (ASTM C-109)/(Set)	\$	120.00
	212	Cement Compressive Strength, two age (ASTM C-109)/ (Set)	\$	127.00
	213	Mortar/Grout Compressive Strength Cubes (ASTM C-109)	\$	27.00
	214	Mortar/Grout Compressive Strength 3" x 6" (ASTM C-495)	\$	24.00
	215	Mortar/Grout Compressive StrengthGrout Prisms (ASTM C-1019)	\$	55.00
	216	Structural Coring		By Quotation
	217	Windsor Probes (ASTM C-803)	\$	79.00
	218	Bar Linear Shrinkage/ (Set)	\$	282.00
	219	Unit Weight of Lightweight Cylinders/ (Set)	\$	70.00
	220	Split Tensile Strength including preparation (ASTM C-496)	\$	94.00
	221	Petrographic Examination of Hardened Concrete (ASTM C-856)		By Quotation
	222	Concrete Shrinkage Test (ASTM C-157, C-490)/ (Test)	\$	138.00
800	Asphalt	Concrete Mix Design & Inspection		
	801	Mix Design Review (using previously determined aggregates properties and		187.00
	801	other design factors) Excluding Test Costs	\$	187.00
	802	Trial Batch Test (up to 5 curve points)	\$	1,403.00
	803	Additional Curve Points for item 802, Per Point	\$	202.00
	804	Extraction & Gradation Test (ASTM D-2172, ASTM C-136 or TEX - 210F)	\$	174.00
	805	Specific Gravity (ASTM D-2041 TEX 201F)	\$	75.00
	806	Stability: Hveem (3 Per Set) (ASTM D-1559)	\$	125.00
	807	Bulk Density of Lab Molded or Field Specimen (Core), (TEX - 207F)/(Set)	\$	75.00
	808	Molding Specimens (3 Per Set) for 806 & 807 (ASTM D-1560, TEX-208F)/(Set)	\$	125.00
	809	Penetration (ASTM D-5)	\$	74.00
	810	Ductility (ASTM D-113)	\$	99.00
	811	Viscosity (ASTM D-2170)	\$	82.00
	812	Asphalt Coring (4" Dia Up to 6" Thickness) includes Personnel, Vehicles		00.00
		and Patching Holes	\$	80.00
	813	Asphalt Coring Minimum Charge/ (LS)	\$	290.00
	814	Additional Thickness over 6"/ (Inch)	\$	7.00

Attachment A

HVJ SOUTH CENTRAL TEXAS CONSTRUCTION MATERIALS ENGINEERING AND TESTING SERVICES STANDARD FEE SCHEDULE

CODE	DESCRIPTION		INIT PRICE
815	Abson Recovery (TEX-211F)	\$	281.00
816	Measuring Thickness of Asphalt Cores	\$	8.00
817	Maximum Theoretical Specific Gravity (TEX 227F)	\$	115.00
818	Hot Mix In-Place Asphalt Design	\$	1,870.00
819	Apparent Specific Gravity (TEX 227F)	\$	58.00
820	Moisture Susceptibility Test (TEX 531 C)	\$	409.00
821	PMA Extraction/Gradation (ASTM D-2172)	\$	234.00
822	PMA Extraction/Gradation by Ignition (ASTM D-2928)	\$	145.00
1000 Soils Te	ests:		
	Liquid and Plastic Limits: (Atterberg Limits) (ASTM D-4318. Tex 104E, 105E,		
1001	106E)	\$	75.00
1002	Moisture Content Only (ASTM D-2216)	\$	15.00
1003	Mechanical Sieve Analysis, Through #200 Sieve (ASTM D-422)	\$	72.00
1004	Percent Passing #200 Sieve (ASTM D-1120)	\$	65.00
1005	Specific Gravity (ASTM D-854 & D-204)	\$	51.00
1006	OMD Standard Compaction (ASTM D-698, Tex-114E)	\$	275.00
1007	OMD Modified Compaction (ASTM D-1557, Tex-113E)	\$	275.00
1008	OMD Lime or Cement Stabilized Soil (ASTM D-698, D-558, D-1557, Tex121E)	\$	275.00
1009	California Bearing Ratio (ASTM D-1883)	\$	185.00
1010	Percent Solids in Lime Slurry /(Test)	\$	37.00
1011	Four Point Lime Content Recommendation Series (PI)/(Set)	\$	250.00
1012	Cement Content of Freshly Mixed CSS Mixture (ASTM D-806)	\$	269.00
1014	Comp. Strength of CSS Sample, Including Molding (ASTM D-1632 & D-1633)	\$	61.00
1015	Maximum & Minimum Density (Sands) (ASTM D-4254)/ (Test)	\$	275.00
1016	Density and Moisture of Soil Sample	\$	19.00
1017	Unconfined Compression (ASTM D-2166)	\$	39.00
1018	Unconsolidated Undrained (ASTM D-2850)	\$	54.00
1019	Consolidation (One cycle) (ASTM D-2435)	\$	310.00
1020	Consolidation - Additional Increments	\$	44.00
1021	Ph of Soil (ASTM D-4972)	\$	45.00
1022	Optimum Lime Content Ph Method	\$	225.00
1023	Sieve Analysis - Base Materials (ASTM C-136)	\$	85.00
1024	Compressive Strength of Cement Stablilized Base Materials,	_	
	(TEX-120E, ASTM D-2166)	\$	275.00
1025	Soil Shrinkage Factor (ASTM D-427)	\$	54.00
1026	One Dimensional Swell Cohesive Soils	\$	251.00
1027	Triaxial Testing		By Quotation

1028	Permeability Test, Constant Head Method (ASTM D-2434)	\$	225.00
1029	Pinhole Test	\$	246.00
1030	Crumb Test (ASTM D-4647)	\$	33.00
1031	Double Hydrometer (ASTM D-4221)	\$	152.00
1032	Free Swell (FHA)	\$	75.00
1033	Soil Suction - Filter Paper Method	5	49.00

1300 Reimbursable Expenses:

1301 Reimb Expenses Including Outside Testing, Equipment and Supplies Cost + 10%

General Notes

Attachment A

^{*}Services on an hourly basis will be invoiced based on unitirates presented above. Overtime rates of 15 times the regular hourly rates will be charged for time worked over 8 hours or before 6:00 AM or after 6:00 PM on Monday through Friday, and all hours worked on Saturdays, Sundays, or holidays.

^{*}A minimum charge of four (4) hours applies to time worked less than four hours in any service call. HVJ when possible will combine inspection and testing activities to minimize trip charges and labor expenses.

^{*}Services will be invoiced from portal to portal including on-site time.



4201 Freidrich Lane, Suite 110
Austin, Texas 78744
512.447.9081 Ph

512.443.3442 Fax

www.hvj.com

January 21, 2022 (Revised February 8, 2022)

Mr. Graham Moore, PE Executive Director Alliance Regional Water Authority 630 E. Hopkins San Marcos, Texas 78666

Re: ARWA Phase 1B – Pipeline Segment A

Construction Phase Materials Engineering and Testing Proposal

San Marcos, Texas

HVJ Project No. AC2110020.3

Dear Mr. Moore:

Pursuant to your request, HVJ South Central Texas – M&J, Inc. (HVJ) is pleased to submit this proposal to provide Owner quality assurance testing for the above referenced project. This proposal reflects brief scope and fee for construction phase materials engineering and testing services following a brief review of project documents.

Project Description

It is understood that the project includes complete construction of approximately 89,000 LF of 42-/48-inch water line and appurtenances. We understand that the treated Pipeline Segment A begins at the future ARWA Water Treatment Plant near SH-304 and Wolf Run Rd (CR 156). The project continues west crossing multiple county roads, state highways, and Plum Creek. The project includes a connection to a future Lockhart Delivery Point and terminates near FM 1322, where Segment B begins. Project also includes approximately 1,500 LF of trenchless construction, including the crossing of Plum Creek.

Scope of Services

The general scope of material testing and inspection services anticipated for this project is as follows.

- Soils, Base, Concrete and Grout Lab/Field Testing
- Steel Pipe Weld Inspection & Testing

It is understood that materials testing and observations services were estimated on a call-out basis, where personnel will not be present full time during performance of the work unless requested to be present. However, where possible, HVJ-SCTx will work with the CM team to combine testing and inspection activities in an attempt to reduce the number of site visits needed.

Cost Estimate

We recommend allocating a budget of \$730,665 for construction materials testing and inspection for the proposed Phase 1B Pipeline Segment A. Summary of the materials testing and inspection budget fee is shown below.

ARWA - Phase 1B Treated Pipeline Segment A - Materials Tes	ting (Field Services	s - soils, concret	e/grout)	
Description	Unit	Quantity	Rate	Total
Tech Time - Soil Compaction, Concrete/Grout Testing	hour	2647	\$84	\$222,348
Overtime - Soil Compaction, Concrete/Grout Testing	hour	139	\$126	\$17,514
Nuclear Gauge	trip	398	\$55	\$21,890
Vehicle Charge	trip	398	\$80	\$31,840
			Subtotal	\$293,592
ARWA - Phase 1B Treated Pipeline Segment A - Materials Tes	ting (Lab Services	- soils, aggregat	es & concrete,	/grout)
Description	Unit	Quantity	Rate	Total
Soil/Base Sample Preparation	each	45	\$75	\$3,375
Atterberg Limits	each	45	\$75	\$3,375
Sieve Analysis (soils)	each	45	\$72	\$3,240
Proctors	each	45	\$275	\$12,375
Sieve Analysis (bedding & rip rap)	each	20	\$95	\$1,900
Resistivity Test (soils)	each	20	\$125	\$2,500
Concrete & Grout Cylinder Compressive Strength	each	900	\$24	\$21,600
			Subtotal	\$48,365
ARWA - Phase 1B Treated Pipeline Segment A - Weld Inspecti	on			
Description	Unit	Quantity	Rate	Total
Pipeline Inspector (CWI)	hour	1272	115	\$146,280
Pipeline Inspector - Overtime	hour	465	172.5	\$80,213
Magnetic Particle Equipment	trip	155	\$125	\$19,375
Vehicle Charge	trip	159	\$80	\$12,720
Reporting - Welding Inspection	each	159	\$100	\$15,900
			Subtotal	\$274,488
ARWA - Phase 1B Treated Pipeline Segment A - Project Admir	nistration			
Description	Unit	Quantity	Rate	Total
Project Manager, PE	hour	280	\$179	\$50,120
Task Leader (Deputy Project Manager)	hour	315	\$125	\$39,375
Admin	hour	315	\$65	\$20,475
			Subtotal	\$109,970
ARWA - Phase 1B Treated Pipeline Segment A - Other Direct E	xpenses			
Description	Unit	Quantity	Rate	Total
Air Quality Meter	each	3	\$1,000	\$3,000
Extension Cord	feet	500	\$2.50	\$1,250
Other Reimbursable Expenses (cost + 10%)	-	-	-	-
			Subtotal	\$4,250
			Total	\$730,665

Assumptions

The following assumptions were used in the preparation of this proposal:

- For soils and concrete/grout testing, 320 days for one tech and 78 days for second tech at 7 hrs/day are assumed.
- For welding inspections, 105 days for one inspector and 50 days for second inspector at 11 hrs/day are assumed.
- Inspection of O Ring Connections will be performed by others.
- Field inspection of mortar lining and polyurethane coating is not included in this scope. The CWIs will be certified to measure polyurethane coating thickness of field repairs. When scheduled the previous day, the CWIs will perform thickness measurements of polyurethane coating and the only extra fees will be for equipment and reporting.
- 100% visual and 100% testing is assumed for field welds.
- All welds will be tested using the Magnetic Particle method.
- Retest and reinspection costs are not included in the estimate. We will reinspect/retest inside the daily fee as long as it doesn't cause the need to add more service days. As requested, reinspection/retest costs will be separated on invoices to ARWA.
- 1 business day advance notice will be required to schedule services.

This estimate was prepared based on a *12 month* pipe installation schedule. The cost estimate is based on our projections for both the construction schedule and the frequency of service requests from the Client. As the schedule and frequency of service requests are beyond our control, we cannot guarantee that the estimate provided herein will be adequate for the services needed through the entire duration of the construction of this project. We understand that advance authorization will be required if additional funds are needed to complete the testing per project specifications. HVJ will monitor the budget as the work proceeds and will keep you or your designated representative informed.

Scheduling of our personnel for this project will be at the request of you or your designated representatives. To ensure proper scheduling of the work, we require a minimum 24 hour notice (1 full business day, Monday-Friday) to provide on-call personnel.

Services will be invoiced on a unit fee basis in accordance with the attached Construction Phase Services Fee Schedule. Overtime rates of 1.5 times the regular hourly rates will be charged for time worked over 8 hours per day, hours worked before 6:00 AM or after 6:00 PM Monday through Friday, and all hours worked on Saturdays, Sundays and holidays.

Limitations

Our work will be performed in a manner consistent with that level of care and skill ordinarily exercised by other members of HVJ's profession practicing in the same locality, under similar conditions and on the date the services are provided. Our conclusions, opinions and recommendations will be based on a limited number of observations and data. It is possible that conditions could vary between or beyond the data evaluated. HVJ makes no guarantee or warranty, express or implied, regarding the services, communication (oral or written), report, opinion, or instrument of service provided.

This proposal was prepared specifically for the client and its designated representatives and may not be provided to others without HVJ's expressed permission.

ARWA Phase 1B – Pipeline Segment A AC2110020.3 (Revised) February 8, 2022

HVJ Associates® is pleased to submit this revised proposal for the proposed improvements. Should you have any questions regarding the contents of this proposal, please contact us at 512-447-9081.

Sincerely,

HVJ South Central Texas - M&J, Inc.

TBPE F-18091

Syed Jafar, P.E.

Executive Vice President

Enclosures:

Attachment A: Standard Fee Schedule (4 pages)

ALLIANCE REGIONAL WATER AUTHORITY MASTER FEE SCHEDULE

_	CODE	DESCRIPTION	но	URLY RATES
_	CODE	DESCRIPTION	110	OKET KATES
	1	Project Manager (PE)	5	179.00
	2	Sr. Project Engineer(PE)	5	179.00
	3	Project Engineer (PE)	5	150.00
	4	Staff Engineer (EIT)	5	125.00
	5	Certified Engineering Technician	5	84.00
	6	Welding Inspector (CWI)	5	115.00
	7	NDT Inspector (ASNT Level II)	5	125.00
	8	NDT Inspector (ASNT Level III)	5	145.00
	9	NACE Inspector Level I Coatings Inspector	5	115.00
	10	Administrative	5	65.00
	H	Vehicle Charge (per trip)	5	80.00
	12	Nuclear Gauge (per trip)	5	55.00
	13	Magnetic Particle Equipment (per trip)	5	125.00
	14	Traffic Control		Cost + 10%
MAT	TERIAL T	ESTING	U	INIT PRICE
100	Concret	te Aggregates:		
	101	Screen or Sieve Analysis (ASTM C-136 or Tex-110)	\$	72.00
	102	Specific Gravity (ASTM C-127 or C128)	\$	51.00
	103	Unit Weight (ASTM C-29)	\$	45.00
	104	Absorption (ASTM C-127 or C-128)	\$	44.00
	105	Finer than 200 Mesh (ASTM C-117)	\$	49.00
	106	Organic Impurities (ASTM C-40)	\$	45.00
	107	Scratch Hardness (ASTM C-851)	\$	45.00
	108	Abrasion Tests (ASTM C-131 or C-535)	\$	215.00
	109	Clay Lumps (ASTM C-142)	\$	55.00
	110	Light Weight Pieces (ASTM C-123)	\$	61.00
	III	Sand Equivalent (ASTM D-2419)	\$	65.00
	112	Sodium/Magnesium Sulfate Soundness (5 Cycles)	\$	390.00
	113	Sodium/Magnesium Sulfate Soundness Additional Cycles	\$	175.00
	114	Petrographic Examination of Concrete Aggregates (ASTM C-295)		By Quotation
200	Concret	te Mix Design Inspection and Testing		
		Mix Design Review (using previously determined aggregate properties and other	5	179.00
	201	design factors) Excluding Test Costs	*	177.00
	202	Trial Batch Tests (ASTM C-192) (Using aggregate admixtures and cement	5	45 0.00
		proposed for use in the project) each batch or each curve point		
	203	Cylinders (ASTM C-39) test or hold, each	\$	24.00
	204	Beam Test (ASTM C-78, C-293) or Hold, Each	\$	55.00

	CODE	DESCRIPTION	U	NIT PRICE
	205	Concrete Coring (4" Dia Up to 6" Thickness) ASTM C-42 includes	e	90.00
		Personnel, Vehicle and Patching Holes	\$	90.00
	206	Measuring Thickness of Concrete Cores (ASTM C-174)	\$	22.00
	207	Additional Thickness (6"to 12")/ (Inch)	\$	8.00
	208	Additional Thickness (Over 12")/ (Inch)	\$	10.00
	209	Concrete Coring, Minimum Charge (Min. 3 Cores)/ (LS)	\$	290.00
	210	Preparation of Cores, Capping & Test (ASTM C42, C-39)	\$	67.00
	211	Cement Compressive Strength, one age (ASTM C-109)/(Set)	\$	120.00
	212	Cement Compressive Strength, two age (ASTM C-109)/ (Set)	\$	127.00
	213	Mortar/Grout Compressive Strength Cubes (ASTM C-109)	\$	27.00
	214	Mortar/Grout Compressive Strength 3" x 6" (ASTM C-495)	\$	24.00
	215	Mortar/Grout Compressive StrengthGrout Prisms (ASTM C-1019)	\$	55.00
	216	Structural Coring		By Quotation
	217	Windsor Probes (ASTM C-803)	\$	79.00
	218	Bar Linear Shrinkage/ (Set)	\$	282.00
	219	Unit Weight of Lightweight Cylinders/ (Set)	\$	70.00
	220	Split Tensile Strength including preparation (ASTM C-496)	\$	94.00
	221	Petrographic Examination of Hardened Concrete (ASTM C-856)		By Quotation
	222	Concrete Shrinkage Test (ASTM C-157, C-490)/ (Test)	\$	138.00
800	Asphalt	Concrete Mix Design & Inspection		
	801	Mix Design Review (using previously determined aggregates properties and	\$	187.00
	802	other design factors) Excluding Test Costs Trial Batch Test (up to 5 curve points)		1.403.00
	803	Additional Curve Points for item 802. Per Point	\$ \$	1,403.00 202.00
	804	Extraction & Gradation Test (ASTM D-2172, ASTM C-136 or TEX - 210F)	5	174.00
	805	Specific Gravity (ASTM D-2041 TEX 201F)	5	75.00
	806	Stability: Hveem (3 Per Set) (ASTM D-1559)	5	125.00
	807	Bulk Density of Lab Molded or Field Specimen (Core), (TEX - 207F)/(Set)	5	75.00
	808	Molding Specimens (3 Per Set) for 806 & 807 (ASTM D-1560, TEX-208F)/(Set)	5	125.00
	809	Penetration (ASTM D-5)	5	74.00
	810	Ductility (ASTM D-113)	5	99.00
	811	Viscosity (ASTM D-173)	5	99.00 82.00
	812	Asphalt Coring (4" Dia Up to 6" Thickness) includes Personnel, Vehicles	*	02.00
	012	and Patching Holes	\$	80.00
	813	Asphalt Coring Minimum Charge/ (LS)	5	290.00
	814	Additional Thickness over 6"/ (Inch)	5	7.00
	017	reserved the mess of a virtually	*	7.00

CODE	DESCRIPTION	U	NIT PRICE
	Above Bossess (TEV DUE)		
815	Abson Recovery (TEX-211F)	\$	281.00
816	Measuring Thickness of Asphalt Cores	\$	8.00
817	Maximum Theoretical Specific Gravity (TEX 227F)	\$	115.00
818	Hot Mix In-Place Asphalt Design	\$	1,870.00
819	Apparent Specific Gravity (TEX 227F)	\$	58.00
820	Moisture Susceptibility Test (TEX 531 C)	\$	409.00
821	PMA Extraction/Gradation (ASTM D-2172)	\$	234.00
822	PMA Extraction/Gradation by Ignition (ASTM D-2928)	\$	145.00
1000 Soils Te	ests:		
	Liquid and Plastic Limits: (Atterberg Limits) (ASTM D-4318. Tex 104E, 105E,		
1001	106E)	\$	75.00
1002	Moisture Content Only (ASTM D-2216)	\$	15.00
1003	Mechanical Sieve Analysis, Through #200 Sieve (ASTM D-422)	\$	72.00
1004	Percent Passing #200 Sieve (ASTM D-1120)	\$	65.00
1005	Specific Gravity (ASTM D-854 & D-204)	\$	51.00
1006	OMD Standard Compaction (ASTM D-698, Tex-114E)	\$	275.00
1007	OMD Modified Compaction (ASTM D-1557, Tex-113E)	\$	275.00
1008	OMD Lime or Cement Stabilized Soil (ASTM D-698, D-558, D-1557, Tex121E)	\$	275.00
1009	California Bearing Ratio (ASTM D-1883)	\$	185.00
1010	Percent Solids in Lime Slurry /(Test)	\$	37.00
1011	Four Point Lime Content Recommendation Series (PI)/(Set)	\$	250.00
1012	Cement Content of Freshly Mixed CSS Mixture (ASTM D-806)	\$	269.00
1014	Comp. Strength of CSS Sample, Including Molding (ASTM D-1632 & D-1633)	\$	61.00
1015	Maximum & Minimum Density (Sands) (ASTM D-4254)/ (Test)	\$	275.00
1016	Density and Moisture of Soil Sample	\$	19.00
1017	Unconfined Compression (ASTM D-2166)	\$	39.00
1018	Unconsolidated Undrained (ASTM D-2850)	\$	54.00
1019	Consolidation (One cycle) (ASTM D-2435)	\$	310.00
1020	Consolidation - Additional Increments	\$	44.00
1021	Ph of Soil (ASTM D-4972)	\$	45.00
1022	Optimum Lime Content Ph Method	\$	225.00
1023	Sieve Analysis - Base Materials (ASTM C-136)	\$	85.00
1024	Compressive Strength of Cement Stabilized Base Materials,	_	
	(TEX-120E, ASTM D-2166)	\$	275.00
1025	Soil Shrinkage Factor (ASTM D-427)	\$	54.00
1026	One Dimensional Swell Cohesive Soils	\$	251.00
1027	Triaxial Testing		By Quotation

1028	Permeability Test, Constant Head Method (ASTM D-2434)	\$	225.00
1029	Pinhole Test	\$	246.00
1030	Crumb Test (ASTM D-4647)	\$	33.00
1031	Double Hydrometer (ASTM D-4221)	\$	152.00
1032	Free Swell (FHA)	\$	75.00
1033	Soil Suction - Filter Paper Method	5	49.00

1300 Reimbursable Expenses:

1301 Reimb Expenses Including Outside Testing, Equipment and Supplies Cost + 10%

General Notes

Attachment A

^{*}Services on an hourly basis will be invoiced based on unitirates presented above. Overtime rates of 15 times the regular hourly rates will be charged for time worked over 8 hours or before 6:00 AM or after 6:00 PM on Monday through Friday, and all hours worked on Saturdays, Sundays, or holidays.

^{*}A minimum charge of four (4) hours applies to time worked less than four hours in any service call. HVJ when possible will combine inspection and testing activities to minimize trip charges and labor expenses.

^{*}Services will be invoiced from portal to portal including on-site time.

BOARD MEMBER PACKETS

Wednesday, February 23, 2022 at 3:00 P.M. County Line SUD Offices, 8870 Camino Real, Kyle, TX 78640

H.10 Consider adoption of Resolution 2022-02-23-006 approving the process for mediation on land acquisition efforts. ~ *Graham Moore, P.E., Executive Director*

Background/Information

The Board provided some general direction to Staff as to how it wished to handle mediation for land acquisition efforts at the last meeting. Attached is a resolution to formalize the process, which includes the following key elements:

- 1. Preference for virtual mediation over in-person.
- 2. Minimum of two Board members participating along with the Executive Director.
- 3. The allowable parameters for settlement will be provided as direction by the full Board of Directors as part of discussions that occur during Executive Session.

Staff is seeking approval of the resolution to codify this process. The first mediation is scheduled for March 2nd and the two Board members have already been identified.

Board decision needed:

 Possible adoption of Resolution 2022-02-23-006 approving the process for mediation utilized on land acquisition efforts for the Phase 1B Program.



RESOLUTION NO. 20220223-006

A RESOLUTION OF THE ALLIANCE REGIONAL WATER AUTHORITY BOARD OF DIRECTORS APPROVING THE PROCESS FOR MEDIATION UTILIZED ON LAND ACQUISITION EFFORTS RELATED TO THE AUTHORITY'S PHASE 1B PROGRAM AND RELATED MATTERS, AND DECLARING AN EFFECTIVE DATE

RECITALS:

- 1. The Alliance Regional Water Authority (the "Authority") is in the process of acquiring easements from landowners for its Phase 1B Program. In some cases the landowners prefer to enter into mediation to resolve any details of the easement, including its value.
- 2. The Authority has determined that it is typically more efficient to enter into formal mediation with the landowners than to continue forward through litigation in a court of law to resolve any details of the easement.
- **3.** The Authority Board of Directors desires to have mediations occur virtually as opposed to in-person, whenever possible.
- **4.** The Authority Board of Directors further desires to have at least two of its members, along with the Executive Director, to participate in any mediation along with the Authority's legal counsel and/or special legal counsel.
- **5.** When the Executive Director is made aware of a scheduled mediation, the Executive Director is to e-mail the entire Board of Directors to ask for volunteers to participate in the mediation. The Executive Director will then coordinate the details of the meeting with the Directors selected to participate in the mediation.
- **6.** The delegated Directors and Executive Director shall have the authority to settle the mediation disputes based on direction from the Board on allowable parameters.

BE IT RESOLVED BY THE BOARD OF DIRECTORS OF THE ALLIANCE REGIONAL WATER AUTHORITY:

- **SECTION 1.** The mediation process noted above is approved by the Board of Directors for acquisition of easements related to the Phase 1B Program.
- **SECTION 4.** This Resolution shall be in full force and effect immediately upon its passage.

ADOPTED: February 23, 2022.	
	ATTEST:
Chris Betz	James Earp
Chair, Board of Directors	Secretary, Board of Directors

BOARD MEMBER PACKETS

Wednesday, February 23, 2022 at 3:00 P.M. County Line SUD Offices, 8870 Camino Real, Kyle, TX 78640

I. BOARD MEMBER ITEMS OR FUTURE AGENDA ITEMS – Possible acknowledgement by Board Members of future area events and/or requests for item(s) to be placed on a future agenda where no action is required.

Background/Information

The Board Members have an opportunity to make announcements or to request that items be added to future Board or Committee agendas.

BOARD MEMBER PACKETS

Wednesday, February 23, 2022 at 3:00 P.M. County Line SUD Offices, 8870 Camino Real, Kyle, TX 78640

- **J.1** Executive Session pursuant to the Government Code, Section 551.071 (Consultation with Attorney) and/or Section 551.072 (Real Property Deliberations) regarding:
 - A. Water supply partnership options
 - B. Groundwater leases
 - C. Acquisition of real property for water supply project purposes

BOARD MEMBER PACKETS

Wednesday, February 23, 2022 at 3:00 P.M. County Line SUD Offices, 8870 Camino Real, Kyle, TX 78640

- **J.2** Action from Executive Session on the following matters:
 - A. Water supply partnership options
 - B. Groundwater leases
 - C. Acquisition of real property for water supply project purposes

BOARD MEMBER PACKETS

Wednesday, February 23, 2022 at 3:00 P.M. County Line SUD Offices, 8870 Camino Real, Kyle, TX 78640

K. ADJOURNMENT